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REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION
FOR
REEF (BURT COMPANY) SITE
PORTLAND, MAINE

Prepared for:

U.S. Environmental Protection Agency
Region I
60 Westview Street
Lexington, MA 02173

CONTRACT NO. 68-W0-0036

TAT 01-N-00800

TDD #01-9103-14

Prepared By:

ROY F. WESTON, INC. Technical Assistance Team Region I

April 1991

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EPA REGION I REMOVAL PRELIMINARY ASSESSMENT

1 OF 3

SITE NAME AND LOCATION
SITE NAME: PEEF SITE (formarly BURT COMPANY SITE)
STREET, ROUTE NO. OR LOCATION IDENTIFIER: / CAMBRIDGE STREET TOWN: PONTLAND
COUNTY: CLMBENLAND COLNTY STATE: MAINE
ATTACHED USGS MAP OF LOCATION PURTLAND, MAINE - WEST QUAD
SITE STATUS: NPL NON-NPL RCRA TSCA ACTIVE ABANDON OTHER
SITE ID #:
REFERRAL
☐ CITIZEN ☐ CITY/TOWN 🔏 STATE ☐ PREREMEDIAL ☐ RCRA
NAME OF REFERRING PARTY: DENISSE MESSIER
ADDRESS: MAINE DEPARTMENT OF PHONE #: (207) 289-2651
ENVIRONMENTAL PROTECTION (ME DEP)
CONTACTS IDENTIFIED: A. STEVE EVERNIA - ME DEP RESPONSE PHONE #: (207) 879-6300
B. CLAYTON MAY BEE - ME DEP - SITES PHONE #: (207) 289-8552
CPHONE #: ()
DPHONE #: (
SOURCE OF INFORMATION
VERBAL TELEPHONE CONVENSATIONS WITH ME DEP
REPORT ME DEP MEMORANDUM - PRELIMINANY ASSESS.
BURT CO. PECEMBER 11, 1990
OTHER —
POTENTIAL RESPONSIBLE PARTIES
OWNER: NORMAN S. REEF ADDRESS: 66 PEARL STREET
PHONE #: (207) 774-6171 PONTLAND, MAINE
OPERATOR: PLAYMOND PEEC ADDRESS: 197 PONTLAND STREET
PHONE #: (207) (617) 723-1750 BOSTON, MASSACKUSETTS
SOURCE: ME DEP AND PROPERTY DEED



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REMOVAL PRELIMINARY ASSESSMENT
SITE ACCESS
OBTAINED DATE: 4/4/91 AUTHORIZING PERSON: RAYMOND NEEF PHONE #: (6/7) 723-1750
PHYSICAL SITE CHARACTERIZATION
BACKGROUND INFORMATION (INCLUDE SITE DESCRIPTION, TOPOGRAPHY, AND PRIOR USES):
THE SITE IS AN ABANDONED BILLAND BALL POKER CHIP FACTORY THAT HAS
BEEN LANDALIZED. THE ME DEP CONDUCTED A REMOUN TO CLEANUP
DIES, PIEMENTS AND LEAD MONOSILICATE. SITE IS LOCATED ON A FLAT
LOT, PORTION OF LOT IS FILLED WETLAND, SMALL STREAM FLOWS ACROSS
THE SITE. CLERPACK DRUMS, CONTAMINATED SOIL AND SUBSTANCES
IN BURNED BUNDING REMAIN ON SITE.
DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED:
LEAD MMOSILICATE - WHITE PONDER
PIGMENTS AND DUES USED IN MALLERETON PROCESS
REL OIL STONAGE TANKS - CONTENTS UNKNOWN
POSSIBILY ASBESTOS CONTANINO MATERIALS (ACM)
LAKABUN LIGUIDS IN SMALLEN CONTAINENS LOCATED
IN OVERPACK TRUMS
EXISTING ANALYTICAL DATA
IDENTIFY SOURCE, DATE AND METHODOLOGY.
REAL-TIME MONITORING DATA WA-
SAMPLING DATA ME DEP, SOIL SAMPLING, 3/27/90, 5/30/90
AND 9/20/90- METALS ARKLYSIS BY SELENKE METHORS
Ola la instance d'international de la company de la compan
AND 9/20/90- METALS ARKLYSIS BY SELENKE METHORS
MOMILM- 4200 MG/KJ, CHNOMIUM- 46,000 MG/Kg, BANIUM
MOMILM- 4200 MG/KJ, CHNOMIUM- 46,000 MG/Kg, BANIUM
mo 9/20/90- METALS ANXLYSIS BY SELENAL METHODS (ADMILM- 4200 M9/kg, CHROMIUM- 46,000 M9/kg, BANIUM 92000 M9/kg,
ADMILM - 4200 MG/KJ CHROMIUM - 46,000 MG/KJ, BANIUM 92000 MJ/KJ, POTENTIAL THREAT
AND 9/20/90- METALS ANXLYSIS BY SEVENAR METHODS (HDMILM - 4200 M9/kg, CHROMIUM - 46,000 M9/kg, BARNIUM 92000 M9/kg, POTENTIAL THREAT DESCRIPTION OF POTENTIAL HAZARDS TO ENVIRONMENT AND/OR POPULATION - IDENTIFY ANY OF THE CRITERIA FOR A REMOVAL ACTION (FROM NCP) THAT MAY BE MET BY THE SITE: 40 CFR 300,415 REMOVAL ACTION (b)(2XI) POTENTIAL SUPUSINE TO HUMANS, HUMALS ON GOOD CHAIN FROM HAZAROUS CONTAMINANTS
AND 9/20/90 - METALS ANXLYSIS BY SELENKE METHODS (HDMILM - 4200 Mg/kg, CHROMIUM - 46,000 mg/kg, BANIUM 92000 Mg/kg, POTENTIAL THREAT DESCRIPTION OF POTENTIAL HAZARDS TO ENVIRONMENT AND/OR POPULATION - IDENTIFY ANY OF THE CRITERIA FOR A REMOVAL ACTION (FROM NCP) THAT MAY BE MET BY THE SITE: 40 CFR 300,415 REMOVAL ACTIM (b)(2)(ii) POTENTIAL SUPPLIES ON THE MAINTANDUS CONTAMINANTS (b)(2)(ii) POTENTIAL CONTAMINATION & DUNKING WATER SUPPLIES ON SENSING ELOSYSTEMS (b)(4)(ii)
AND 9/20/90 - METALS ANALYSIS BY SEVENAR METHODS (NOMILM - 4200 Mg/kg, CHROMIUM - 46,000 mg/kg, BARIUM 92000 Mg/kg, POTENTIAL THREAT DESCRIPTION OF POTENTIAL HAZARDS TO ENVIRONMENT AND/OR POPULATION - IDENTIFY ANY OF THE CRITERIA FOR A REMOVAL ACTION (FROM NCP) THAT MAY BE MET BY THE SITE: 40 CFR 300,415 REMOVAL ACTION (SYZYI) POTENTIAL SUPPOSINE TO HUMANS, ANIMALS ON FOOD CHAIN FROM HAZAROUS CONTAMINANTS (SYZYI) POTENTIAL CONTAMINATION OF DIRECTLY WATER SUPPLIES ON SENSITIVE ELOSYSTEMS (BYGGIL) HAZAROUS SUBSTANCES ON POLLETANTS ON CONTAMINANTS IN DIRECTS, BARRIES, TIMES ON OTHER
AND 9/20/90 - METALS ANXLYSIS BY SELENKE METHODS (HDMILM - 4200 Mg/kg, CHROMIUM - 46,000 mg/kg, BANIUM 92000 Mg/kg, POTENTIAL THREAT DESCRIPTION OF POTENTIAL HAZARDS TO ENVIRONMENT AND/OR POPULATION - IDENTIFY ANY OF THE CRITERIA FOR A REMOVAL ACTION (FROM NCP) THAT MAY BE MET BY THE SITE: 40 CFR 300,415 REMOVAL ACTIM (b)(2)(ii) POTENTIAL SUPPLIES ON THE MAINTANDUS CONTAMINANTS (b)(2)(ii) POTENTIAL CONTAMINATION & DUNKING WATER SUPPLIES ON SENSING ELOSYSTEMS (b)(4)(ii)

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THE AUAULBILITY OF OTHER EDENAL OR STATE RESPONSE MECHANISMS TO RESPOND
TO THE DEWILLE

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REMOVAL PRELIMINARY ASS	SESSMENT					
PRIOR RESPONSE ACTIVITIES						
PRP STATE FEDERAL	OTHER					
BRIEF DESCRIPTION: THE ME DEP CONTRACTED TO HAVE A LEAD MOMOSILICATE, MATERIALS CONTAMINA						
PHENTS AND REMOVAL OF USLALLY CO	MTAMMATER SOIL					
MATERIALS WERE PLACED IN ABEPACK OR	UMS (180) AND					
A LANGE SOIL STOCKPILE.						
	·					
PRIORITY FOR SITE INVESTIG	SATION					
HIGH MEDIUM LOW	NONE					
COMMENTS: STATE REPUBSI FOR ASSISTANCE WITH	neports of					
VANDALISM AND UNSECUPE LOCATION O	FORPACK THUMS.					
REPORT GENERATION						
INITIATOR OF REPORT: TIMOTHY C. JONES						
DATE OF PREPARATION: 4/9/9/						
AFFILIATION: GESTON TAT	PHONE #: (617) 229-6430					

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EPA REGION I REMOVAL SITE INVESTIGATION

1 OF 3

SITE NAME: REEF SITE ADDRESS: 1 CAMBRIOGE STREET FORMALLY BURT COMPANY COUNTY: CUMBERLAND DATE OF INSPECTION: 4/5/91 TIME OF INSPECTION: 0930 — 1500 Jans WEATHER CONDITIONS: SUMMY WARMY, TEMPERATURE TO "F SITE STATUS AT TIME OF INSPECTION: ACTIVE MINACTIVE MINACTIVE COMMENTS: SITE BURDINGS ME DAMAGED BY FINE MAD BY LANDALISM PROGRAM: EMERGEACY PLANAND ANAMES: MANY ELLEN STATION PROGRAM: EMERGEACY PLANAND PROGRAM: EMERGEACY PLANAND FIRM: ROY F. ALSTON, INC. CONTRACTOR SUPPORT NAMES: STEPHEN ELEMIA PROGRAM: CMERTERLY RESIDENCE NAMES: STEPHEN ELEMIA PROGRAM: CMERTERLY RESIDENCE NAMES: STEPHEN ELEMIA ORGANIZATION:	THOROTTON TIMEMATEN							
COUNTY: CLMBERLAND COUNTY: CLMBERLAND DATE OF INSPECTION: 4/5/9/ WEATHER CONDITIONS: SURMY LAMM, TEMPERATURE 70° E SITE STATUS AT TIME OF INSPECTION: ACTIVE ACTIVE ACTIVE ACTIVE MAMES: MANY ELLEN STATION PROGRAM: EMERGENCY PLANTAGE FIRM: 1204 F. WESTON, INC. CONTRACTOR NAMES: TIMOTHY JONES FIRM: 1204 F. WESTON, INC. CONTRACTOR NAMES: STEPHEN ELEMIA PROGRAM: CMEAGENY ILESIANSE STATE CURRENT OWNER BASED ON DEED STATUS: LAMMAN AND PAYMOND BOOK # 8279 PHYSICAL SITE CHARACTERISTICS PROVIDE SITE SCHEMATIC - SEE ATTACHMENT I QUANTITIES/EXTENT PILES CYLINDERS TOWN THE MEN PILES	INSPECTION INFORMATION							
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ME DED REMOVAL SIZENS	172 OVERPACKS PA			 		<u> </u>		
			2	 				
	LAGOONS			=	SED VEGETATION			
TANKS TANKS THE SELENAL FLEW OIL TANKS LANDFILL	TANKS-	ABOVE	SELENAL FLELOIL	LIMB	-			
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OTHER OTHER				`	OTHER			

DECTON

	AE RE	MOVAL SITE INVEST	IGATION
		PHYSICAL SITE OBSERVATI	ONS
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			IN FIRE PAMAGED BASE-
MENT, SELE	MAR FUE	I OIL THIKS OUSITE-CO	NTENTS UNKNOWN.
			·
		TASE REMAIN HAS SECL	
MATERIA	15- NO	cover over pive of	CONTAMINATED SOIL
		RECEPTORS	
	/05	PRIVATE	
∐ GRO	UND WAIER/DI	RINKING WATER SOURCE MUNICIPAL	
Ø UNR	ESTRICTED ACC	ESS TO SITE - CUIDENCE OF UN	noperson on SETE
Ø. POPI	ULATION IN PRO	DXIMITY TO SITE THICKLY SETTLED	MEA WITHIN 100 FEET
SEN	SITIVE ECOSYST	<u>EN</u>	
П отн			
	and the second s	<u>FIELD SAMPLING AND ANAL</u>	YSIS
		FIELD INSTRUMENTATION	ANALYTICAL PARAMETER
SOIL		NA	-KRE METALS SCREENING
		4.0	LEAD, BAAILM, CADMUM AND
GROUNDWATER	₹	NA	CHROMIUM TETECTED BY
		ng.	SINTE THE VIEW
SURFACE WAT	ER		
C		HAL PID 4/11.7eV, PADM	N- LEVER OF PPE SELECTION
AIR SAMPLING		MSA CGI/OZ	
	TANKS		
		CLEVATED HAN PID AND	VOC, BNA, OIL IP
	DRUMS	CGI REPORTES UP TO DO	Durits
STRUCTURES	VATS		
	☐ LAGOONS		
	OTHER	PISMENT/PIE PRIMS .	-XPH METHES SINEAM
	OTHER	NO HAU READINGS	
SPILLAGE			
	,		
RUNOFF			
	 := 	NA - BATKARANN KEHON	YSKRF METALS SCREENING
PILES		only on HOV	- Williams
		TIPLY THE TIME	
SEDIMENTS			



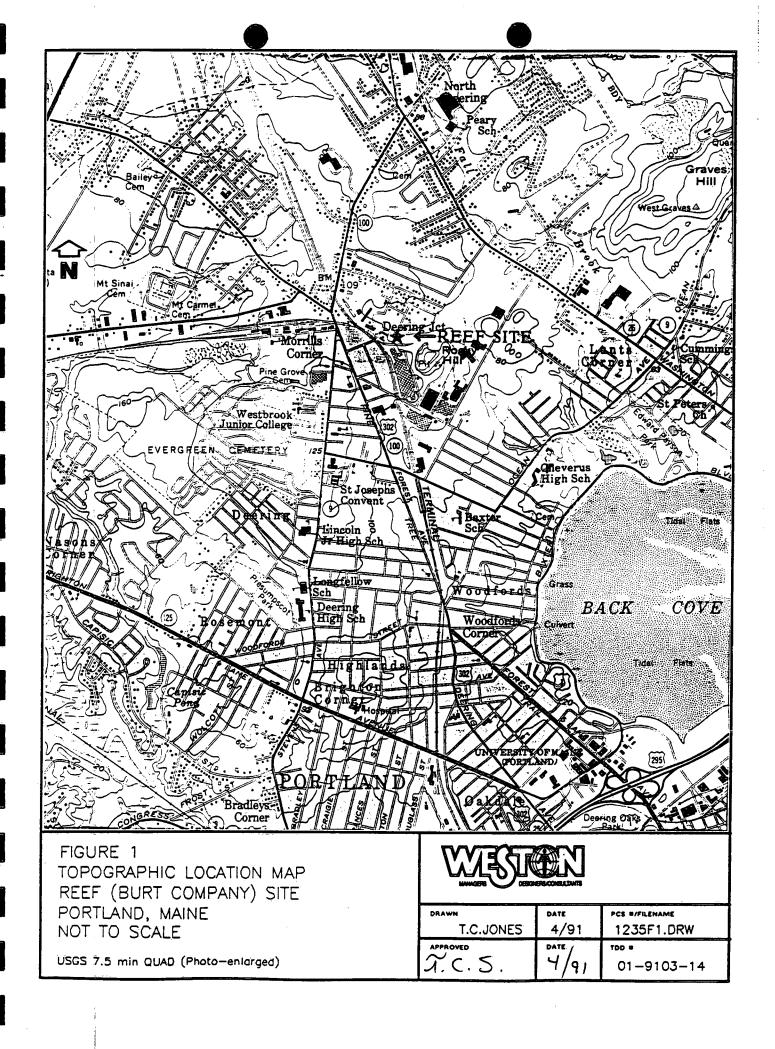
EPA REGION I

3 of 3

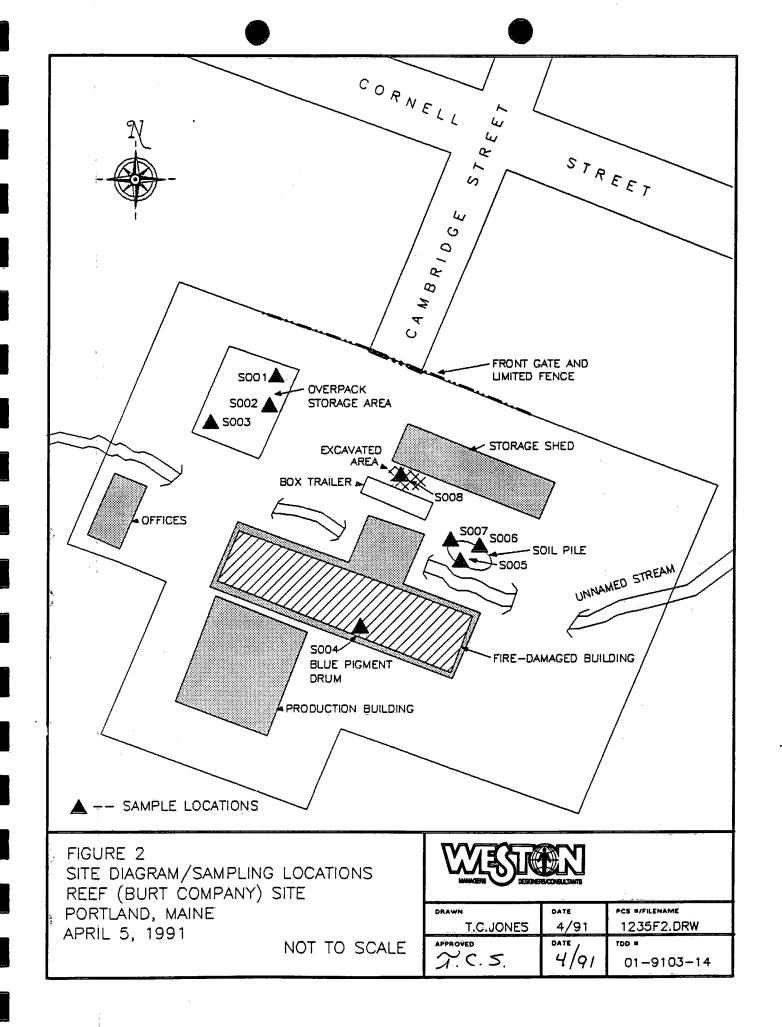
REMOVAL SITE INVESTIGATION
ANALYTICAL RESULTS
SEE ATTACHED REPORT(S)
FIELD QUALITY CONTROL PROCEDURES
SOP FOLLOWED DEVIATION FROM SOP: COMMENTS: 3-40 ml Trip BLANKS FOR LOC ANALYSIS, ENA CHAIN OF CICTORY CRICERUMES FUR DICE ANTES GUELD MOTHER MOST
CHIBAATIONS, SAMPLES PRESERVED MATH ICE TO 40C.
FURTHER ANALYSIS
ANALYTICAL PARAMETER VOA AIR PCB WATER SOIL NON-CLP LAB SEMI VOA TOXICITY DIOXIN ASBESTOS OTHER OVA LABORATORY NETL SAS SAS SOW NON-CLP LAB LABORATORY NETL SAS SOW NON-CLP LAB ASBESTOS OTHER OTHER OTHER OTHER OTHER MEDIA LABORATORY NETL SAS SOW NON-CLP LAB SOURCE NON-CLP LAB OTHER OTH
ADDITIONAL PROCEDURES FOR SITE DETERMINATION
☐ BIOLOGICAL EVALUATION ☐ ATSDR
SITE DETERMINATION
LIST - USE NCP CRITERIA, CLOSURE MEMO. 40 CFR 300, 415 - REMOVAL ACTION SUBSPICTION (B) PANT (Z) PANAGRAPHS: (i)-ACTUAL OR POTENTIAL SUPSCINE TO LEARBY HEMAN POPULATIONS, ANIMALS ON THE FOOD CHAIN FROM
HAZARDUS SIBSTANCES, POLLITANTS OR CONTAMINANTS, (Cic)-HAZARDUS SIBSTANCE
IN PRIMS, TANKS THAT MAY POSE ATHREAT OF RELEASE, CIU) HIGH LEVELS
OF HARANDOUS SUBSTANCES IN SOILS LANGELY AT ON NEAN THE SINGACE, THAT MAY MIGHTLE, CULTUREAT OF GINE ON EXPLOSION (VII)-AVAILABILITY
OF OTHER APPROPRIATE FERENCE OR STATE RESPONSE MERHANISMS TO

RESPOND TO THE RELEASE. SITE TETERMINATION WILL BE BASED ON PENDING ANALYTICAL DATA.

APPENDIX A TOPOGRAPHIC LOCATION MAP



APPENDIX B SITE DIAGRAM/SAMPLING LOCATIONS



APPENDIX C SITE SAMPLING QA/QC PLAN

REEF (BURT COMPANY) SITE SITE SAMPLING QA/QC PLAN PORTLAND, MAINE

Prepared For:

U.S. Environmental Protection Agency Region I 60 Westview Street Lexington, MA 02173

CONTRACT NO. 68-W0-0036

TAT-01-N-00784

TDD NO. 01-9103-14

Prepared By:

ROY F. WESTON, INC. Technical Assistance Team Region I

April 1991

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					·		
	 - -						

1.0 BACKGROUND

The Reef (Burt Company) Site was referred to Mr. David McIntyre, EPA Response and Prevention Section (RPS) Chief, on March 25, 1991, by Ms. Denisse Messier, representing the Maine Department of Environmental Protection (ME DEP). ME DEP was requesting assistance with the disposal of 180 overpack drums that were the result of the removal actions previously conducted by ME DEP at the site.

The Reef (Burt Company) Site, located at 1 Cambridge Street in Portland, Cumberland County, Maine was brought to the attention of ME DEP on March 5, 1990, when drums of chemicals were discovered following a fire at the site in early March 1990. A site visit was made by the ME DEP Bureau of Oil and Hazardous Material Control (BOHMC) Response Services on March 22, 1990 and a preliminary site assessment was conducted by the ME DEP Division of Site Investigation and Remediation on September 20, 1990 (1).

The Reef (Burt Company) site is denoted as Lot No. 13A of tax map 151A for Portland (Figure 1 - Topographic Location Map). The site is approximately three acres and is located in a mixed use industrial and residential area, and is bordered by four industrial properties and one residential property. Site access is partially restricted by a fence, but there is no gate on the main entrance. There are three buildings on the site including a storage garage, an office building and a production building. The production building was damaged by fire and according to the ME DEP assessment, the building appears to be structurally unsound. Milliken Brook flows along the southern perimeter of the site and a small tributary stream flows through the property. (Figure 2 - Site Diagram).

The ME DEP BOHMC conducted removal operations from May 23, 1990, through June 7, 1990 where 180 drums of contaminated materials were overpacked and an additional 20 cubic yards of soils contaminated with dyes and lead monosilicate was stockpiled on the site. Additional removal operations are planned for the basement of the burned out building.

2.0 OBJECTIVES

The objective of the sampling survey is to obtain sufficient analytical data from a representative number of samples which can be used to determine if further actions at the site by the U.S. EPA Emergency Planning and Response Branch are deemed necessary.

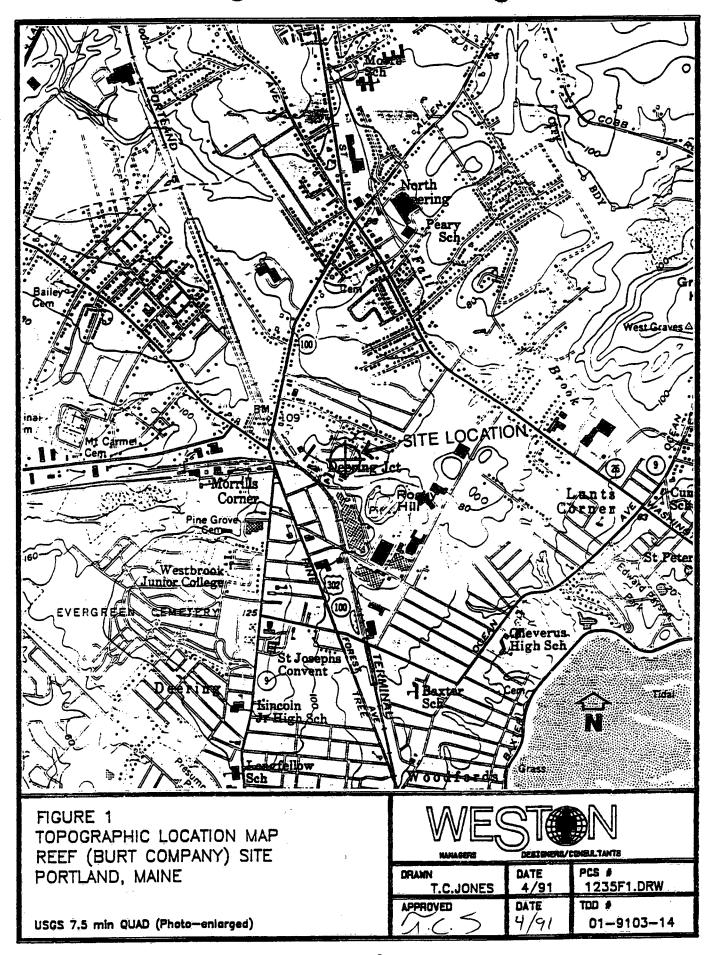
3.0 QUALITY ASSURANCE LEVELS

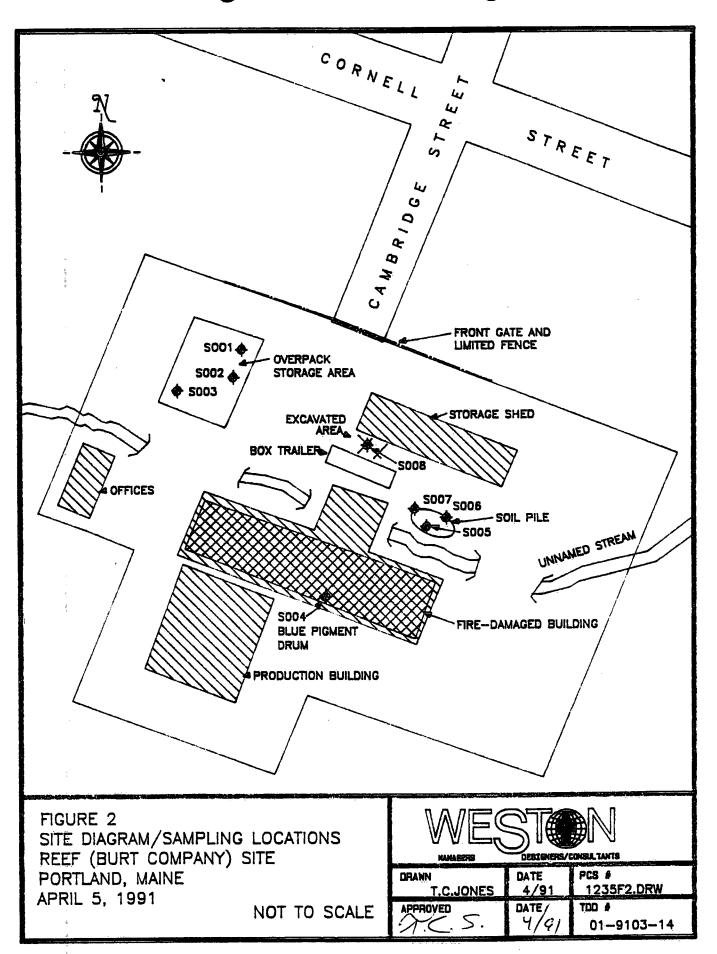
The quality assurance (QA) levels for the on-site screening activities will be QA1. These activities include the use of the following instrumentation/test equipment:

- Mine Safety Appliances (MSA) Model 260 combustible gas/oxygen meter (CGI/O₂).
- Victoreen Model 490 radiation survey meter (RAD MTR).
- HNu Systems, Inc. PI-101 photoionization detector (HNu PID).
- Foxboro OVA 128-GC organic vapor analyzer (OVA).

The OA level for the samples analyzed at the laboratory will be a modified QA2.

See Section 6.0 for details.





4.0 APPROACH AND SAMPLING METHODOLOGIES

The sampling survey will be conducted on or about April 5, 1991. Samples will be collected for, but are not limited to volatile organic compounds (VOCs), base/neutral and acid extractable compounds (BNA) and x-ray fluorescence (XRF) screening for metals.

Each media will be screened in the field prior to sample collection, if practical, to determine the location and quantity of samples. The samples will be containerized, preserved, and analyzed in accordance with Table 1. U.S. EPA chain of custody procedures will be utilized for all sampling activities. Samples will be disposed of by the laboratory performing the analyses. All contaminated sampling materials will be disposed of by the U.S. EPA New England Regional Laboratory.

4.1 Contaminated Soil in Drums

- Up to 10 samples will be collected from the contaminated soils contained in the overpacked drums located on site.
- The location of samples will be based on the ME DEP drum inventory and accessibility of individual drums.
- Samples will be collected with a metal trowel after the drums have been opened and screened with the field instruments.
- Decontamination of sampling equipment will include physical removal, methanol rinse, distilled water rinse and air drying.
- Samples will be analyzed at the U.S.EPA New England Regional Laboratory using the XRF metals screening procedures.

4.2 Liquid in Drums

- Up to five samples will be collected from the liquid materials located in the overpacked drums located on site.
- The location of samples will be based on the ME DEP drum inventory, accessibility of individual drums and results of the field instrumment screening.
- Samples will be collected with stainless steel spatulas or glass rods after the drums have been opened and screened with the field instruments.
- Decontamination of the stainless steel spatulas will include physical removal, methanol rinse, distilled water rinse and air drying. Individual glass rods will be disposed of inside of the overpack drums.
- Samples will be analyzed at the U.S. EPA New England Regional Laboratory for VOC screening analysis and BNA analysis.

4.3 Contaminated Soils

- Up to five samples will be collected from the soils that are visually observed to be contaminated and results of field screening show that VOCs are present.
- The location of samples will be based on visual observations (discoloration, stressed vegetation, etc.) and results of the field instrument screening.
- Samples will be collected for VOCs and BNAs with stainless steel spatulas, and samples will be collected for XRF screening with plastic scoops.
- Decontamination of sampling equipment will include physical removal, methanol rinse, distilled water rinse and air drying.
- Samples will be analyzed at the U.S. EPA New England Regional Laboratory for VOC screening analysis, XRF metal screening, and BNA analysis.
- Field screening methods will be used to determine the levels of VOC contamination at the site. A total of five VOC/BNA samples will be submitted to the laboratory for confirmation analyses.

5.0 PROJECT ORGANIZATION AND RESPONSIBILITIES

U.S. EPA Emergency Planning and Response Branch:

MaryEllen Stanton

Site Investigator

Roy F. Weston Technical Assistance Team Members:

Timothy Jones
Thomas Saccoccio

Task Manager/Sampling Sampling/Air Monitoring

6.0 QUALITY ASSURANCE REQUIREMENTS

The on-site screening activities will employ the following QA level 1 requirments: sample documentation; instrument calibration/performance check; and the determination of a detection limit, if appropriate.

The analyses of samples at the laboratory will employ the folloing modified QA level 2 requirements: sample documentation; chain of custody; sample holding times; method blanks, rinsate blanks, trip blanks, preparation blanks; initial and continuing calibration data; definitive identification: confirm the identification of analytes via a second GC column or mass spectra on the samples submitted (for organics only); and provide gas chromatograms and/or mass spectra.

The on-site screening for the previously mentioned surveys are to have standard QA/QC protocols for checking the calibration of the instruments used. The HNu PID calibration will be checked with an HNu calibration standard.

7.0 DELIVERABLES

A report detailing on-site activities will be generated by the Roy F. Weston Technical Assistance Team.

8.0 DATA VALIDATION

A data quality review of the sample analyses will be conducted by the Roy F. Weston Technical Assistance Team and/or EPA New England Regional Laboratory personnel.

OA level 1 data will be evaluated for calibration and detection limits.

QA level 2 modified data will be evaluated by the following: results of 10% of the samples in the analytical data packages will be evaluated for all of the elements listed in Section 6, "QA Requirements"; and holding times, blank contamination, and detection capability will be reviewed for all samples.

9.0 REFERENCES

1. Preliminary Assessment - Burt Company, ME DEP BOHMC, Decmeber 11, 1990.

TABLE 1
SAMPLING SUMMARY, ANALYTICAL METHODS & QA/QC SAMPLES

MATRIX	#SAMPLES	ANALYTICAL PARAMETER	VOLUME	CONTAINER	PRESERVATIVE	METHOD	TRIP BLANKS
Soil in Drum	10	XRF Screen	8 oz	glass	ice	EPA NERL	
Soil	5	BNA	8 oz	glass	ice	EPA 8270	÷
Soil	5	voc	40 ml	glass	ice	EPA 8240	
Drum	5	BNA	8 oz	glass	ice	EPA 8270	
Drum	5	voc	40 ml	glass	ice	EPA 8240	3-40 ml

7

APPENDIX D SITE HEALTH AND SAFETY PLAN

WESTON MAJOR PROGRAMS DIVISION HEALTH AND SAFETY PLAN EMERGENCY RESPONSE / SITE INVESTIGATION

TDD No. 01-9103-14	Site Name: NEEF SITE (BURT COMPANY)
Site Address: Street No.	CAMBRIDGE STREET
City	PONTLAND
County/State	IMBERLAND COUNTY, MAINE
Site Contact / Phone No.: No.	MAN REEK-OWNER / 207 774-6171
Directions to Site:(Att.Map)	NIE 95 LONTH TO MAINE TURNPIKE TO EXIT 8
MGHT OFF PAR	INF ONTO PLUENSIDE ST., ACCROSS PR TRACKS
	TO WARREN AVENUE TO RT 302. TURN RIGHT
anto Fontst A	PUE (302) AND THEN LEFT ONTO ALLEN AVE (PS 100 N)
FIRST LEFT OM	OWOOD LANN AVE, RIGHT ON MORNILL ST, LEFT
Historical/Current Site Inform	nation: on university, PIGHT on CHMBRIDGE ST.
CLOOK FOR	- BURNED BUILDING AT I CAMBRIDGE STREET.)
	A FORMER BULAND BALL POKER CHIP FACTORY WHICH
WAS DESTROYED	DBY FIRE IN MANCH 1990. THE ME DEP HAS CONDICIEN
A REMOVAL AC	non - 180 OVERPACK PRIMS ON SITE. THERE ARE
ALSO REPORTS O	E HAZAMONSI MATERIALS IN THE SOIL BURNED
BUILDING-AND	o mont hospicent RIVER
	ase
() Spill	
() Fire -	
HW Site	- FIRE PAMARED BUILDING - STATE REMOVER SITE
Location Class: () Industrial () Commercial () Rurai / sursing
USEPA Contact: M.E. STAnto Original HASP: Yes	Date of Initial Site Activities: 4 5 9 Site Health & Safety Coordinator: Jours
Response Activities/Duration (fil	l in as applicable)
Emergency Response:	() Perimeter Recon. () Site Entry () Visual Documentation: () Multi-media Sampling: () Decontamination:
Assessment:	(*) Perimeter Recon. (*) Site Entry (*) Visual Documentation: (*) Multi-media Sampling: (*) Decontamination: (*) Perimeter Recon. (*) Site Entry (*) I lay one TAY (*) I lay one

Physical Safety Hazards to Personnel
() Heat () Cold () Precipitation (A Confined Space () Terrain (Malking/Working Surfaces () Fire & Explosion () Oxygen Deficiency () Underground Utilities () Overhead Utilities () Heavy Equipment (Malking Streams () Pressurized Containers () Ponds, Lagoons, Impoundments (Malking Streams () Pressurized Containers, Systems () Noise () Illumination () Nonionizing Radiation () Ionizing Radiation (Malking Structure)
Biological Hazards to Personnel MA
() Infectious/Medical/Hospital Waste () Non-domesticated Animals () Insects () Poisonous Plants/Vegetation () Raw Sewage
Training Requirements
40 Hour General Site Worker Course with three days supervised experience. () 24 Hour Course for limited, specific tasks with one day supervised experience. () 24 Hour Course for Level D Site with one day supervised experience. 8 Hour Annual Refresher Health and Safety Training. 8 Hour Management/Supervisor Training in addition to basic training course. () Site Specific Health and Safety Training. () Pre-entry training for emergency response skilled support personnel.
Medical Surveillance Requirements
Baseline initial physical examination with physician certification. Annual medical examination with physician certification. Site Specific medical monitoring protocol (Radiation, Pesticide, PCB, Metals). Asbestos Worker medical protocol. Examination required in event of chemical exposure or trauma

Physical Parameters	Chemical Contaminant	Chemical Contaminant	Chemical Conteminent	Chemical Contaminant
,e1.454	LEAD AS LEAT MONOSILICATE	BANUM (BA)	UNKNOWN PAINTS, DUES, PIGNENTS	UNKROWN SOILS AMD HOUDS IN DRIMS
Exposure Limits :DLH Levet	ppm 05 mg/m² PEL ppm 0/ mg/m² 10LM	ppm 0.5 mg/m² PEL ppm 0.5 mg/m² TLV ppm 250 mg/m² IDLH	ppm mg/sc ² PEL ppm mg/sc ² TLV ppm mg/sc ² IDLH	
Physical Forms Sot.Liq.Gas Color	Solid Liquid Gas Color CuttiTE/GRAY	Solid Liquid Gas Color	Solid Liquid Gas Color	Solid Liquid Gas Color
Odor	NA-PERENDS ON SPECIFIC COMPOND	PERHIPS ON SPECIFIC		
Flammable Limits	Degrees F or C UEL % LEL	Degrees F or C UEL X LEL	Degrees F or C	Degrees F or C
Vapor Press.	######################################	mm/Hg Air = 1		mm/Hg
Specific Gravity	Water = 1	Vater = 1	Vater = 1	Water = 1
Solubility	Varies on compound	on companied		
incompatible Materials	STROVE DUPLYER HYDROVER RENDUR SODIUM POTASIUM	بسوا		
Route of Exposure	Inh Abs	Inh Abs	Inh Abs	Inh Abs
!	LASSITUCE, ILSOMINA MALLITHIAN, ABOOM. PAIN, HUPOTENSION ANEMIA, THEMONS	IPPEN PESPINAMY INGLATATION, MUSCLE SPASMISSION PULSE INCHTSUELES, SKIN	·	
First Aid Treatment	EYEMPALLIE SOMP WHEN WASH SKIN, ANT RESP- MEDICAL HIENTON	santer flush J SAME J Same	- SAME	SAME
Ion Potential	NA ev	MA eV	eV	eV
Instruments For Detection	PID W/ Probe FID CGI RAD Det Tube Ph Other MINITAN FOR TOTHE PHINCULA	PID W/ Probe FID CGI RAD Det Tube Ph	PID W/ Probe FID CGI RAD Det Tube Ph Other	PID W 1.7 Probe FID CGI KAD Oet Tube Ph Other Punto VAL

Site Map with work zones:

Support Decontamination persuation
EXCLUSION TO LADACE
MAN COMPANY Level Level
Love Soil Soil PILE
FACILITY BUILDINGS
Decontamination Procedures Test—Wet Decontamination - using: L) Dry Decontamination
Description of Site Specific Decontamination Plan: REMOVE OUTER SUPER PARSUE SUPER, PISPOSE OF IN PLASTICE THASH BAKS, FIELD MASH OF HANDS AND FACE
wet (some admater ringe) clean mill be available if necessary
Adequacy of decontamination determined by: USUAL MESENLATION

TASK TO BE PERFORMED/AIR MONITORING REQUIRED	ANTICIPATED LEVEL OF PROTECTION	TYPE OF CHEMICAL PROTECTIVE COVERALL	INNER GLOVE OUTER GLOVE BOOT COVER	TYPE OF APR CARTRIDGE OR CANISTER
PENNETEN SIXIEY	IEIGL D	COTTON WORK COVERALIS	NA	NA
5/72 ENTRY 1,2,3004	uner B	SANANEK W HOOD AND BOOTS	WINDL WITHING WHEND SILLEN STREND LATER/VINLY	SUBA
PRUM SAMPUNT 1,2,30~4	N		11	"
5016 5AMPLING 1,2,3004	una c	THUEK W/ HOUD AND POUTS	UNIL MITTILE LANEX/VINGE	.GMC-H

requency and Types of Air Monitoring: - Continuous () Routine - () Periodic -

DIRECT READING NSTRUMENTS	COMBUSTIBLE GAS/OXYGEN METER (1)	RADIATION SURVEY METER/PROBE (2)	PHOTOIONIZATION DETECTOR/PROBE (3)	FLAME IONIZATION DETECTOR (4)	CHEM. DETECTOR TUBE (5)
ID NUMBER	GAA 941204	WX941236	SA 313569 -	THAT TES	
CAL, DATE	4/5/91	11/9/40	4/5/91		
TAT MEMBER	T. Somes	CAUPIANIN	T. Some		
ACTION LEVEL	\geq 20%LEL \leq 19.5%, \geq 23% O ₂ - LEAVE	3X BACKGRND - CAUTION; 1 MR/HR-LEAVE	UNKNOWNS 0-5 UNITS:"C" 5-500:"B"	UNKNOWNS 0-5 UNITS:"C" 5-500:"B"	PEL/TLV COMPARE W/PF

LINEL SCHOOL THOUSE THOUSEN	Emergency	Phone	Number
-----------------------------	-----------	-------	--------

Emergency Contact	Location	Phone Number	Notified
Hospital	MAINE MEDICAL CEN BRAMHAL PURY	(207) 871-0111	455- 3/02/21
Ambulance	PonsiAND ME	(207) 874-8574	NO
Police	n	911 in Portland (207) B74-8574	NO
Fire Dept.	n	911 In PONTAUD (207) 874-8574	μο

Chemicai Tra	uma Capabilit	y? (D.Yes () N	lo If no, closest backu	P:	Phone:		
Directions	to Hospital	(attach map) -	Route verified by:	Tes /12	IEPHONE) Da	te: <u>4121</u>	91
FAM	SITE 1	ETERN TO	ALLEN AUE	(100) Tur	IN LEET	AND BEAD	LUEFT
onto	FONEST	KIE WINTO	TOUNTOUN !	COM LAND.	TURN PHO	HT OMO	COMENESS
STREET	T, Th	TRAFFE	EIC LIGHT J	inn lett	- mgo BRA	AMHILL 1	Earo
HOSP	PITAL 1	on TOP O	EIHIL.				

Additional Emergency Phone Contacts

Contact	Phone Number
WESTON 24 hr. Hotline	215-524-1925 215-524-1926
WESTON Medical Emergency Service	513-421-3063
Chemtrec	800-424-9300
ATSDR	404-639-0615
ATF (explosives information)	800-424-9555
National Response Center	800-424-8802
National Poison Control Center	800-942-5969

TASP prepared by: Tulty 1/2 Date: 04/02/91		120	i
Pre-Response Entry Approval by	Date:	41319	<i> </i>
/erbal Approvai/Modification to Original HASP by:	Date:	//	_

Air Monitoring Summary Log

Date: 4/5/91
Data Collected by: Jans / Sacrows / Mary Eller Starter 924 St

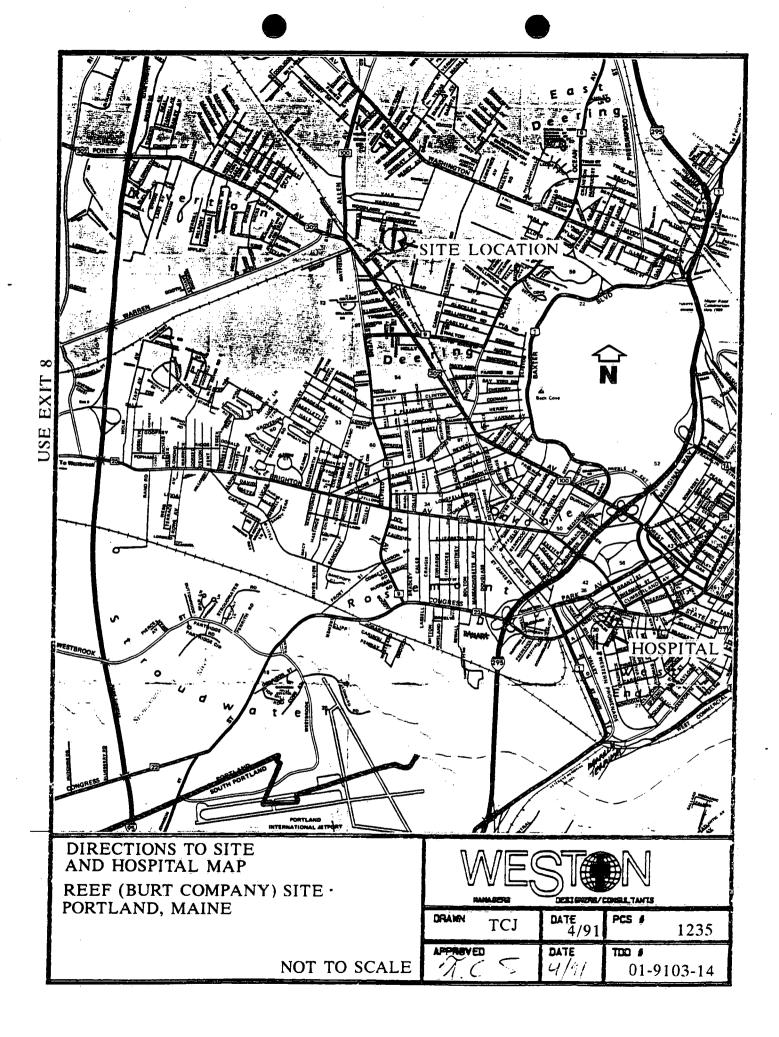
Data to be summarized by a "Range of readings, i.e., - Low to High" and/or "Average" by location.

Station/Location	CGI/O ₂ Meter	Radiation Meter	PID/Probe	FID/OVA	Detector Tube
PRIM	219602	NO LEVERS ABOVE O. INT. BALKSTOND		Not	AA
TRANGE JOHNAKS	0%102	O.1 WHAV	11.7eVHNU 3.0 cm H3 BACKGAUM	NA	af.
SOIL SAMAIN CKCALATURY SOIL PILL	0% HL	Presoration	11.7eU HNV B.O cr HS BACKGRAND	M	Act
mun 42	po	BACKGPAND	AM	MA SACKTURAP	in BREADHAG
AMUNT	21%02 0% LEL	eta Miljir	50-10 units u/11. Tell	Insipe Dri	im'
Mim Amplint Min 1335	21% Or 0% LER	OI M/m BAKRANO	3.0 inits BACKGROWP 11.1eU HMV	NA	MA
PAM THENTONY CLOSED DET PAUS)	21% 02 0% 142	0.1 pep/hr BACKEROVDO	3.0 INITS BACKGRAND 11. TeV HWW	M	M

CARTION GIVEN TO LAB.

Off Site: () Yes	ANO NO				
On Site: Yes	cathoda usad to obtain		_		
mpies: Soil Samples and m	3/ DAE SAMPLES -	- LEVEL C, PUBS	TIC SPOONS		
Thum SAMP	ETALS KAL SCALA	GLASS THIEVES	USED for		
UOC BRAJO	IL 10, PURSTIL FO	n METALS			
Note: The nature of the work as	tential Hazard Level Of Sample of Care PACKE signment may require the use of HASP as applicable: Emergency rogram.	the following procedures/pro	ograms which will b		
Ssistance Team (TAT) Contract intended to fulfill the OSHA ASP are included by reference	fety Plan (HASP) was prepared to 68-WO-0036 for Zone I. Use to requirements found in 29 CFR to 29 CFR 1910 and 1926. At the individuals have read and the i	of this HASP by WESTON of 1910.120. Items not specific	and its subcontracto ally covered in this		
PRINTED NAME	SIGNATURE	AFFILIATION	DATE		
TIMOTHY SMES	Mills yours	Wester TAT	4/5/91		
Thomas C. Saccoccid	Thous . Souve	TAT	14/5/91		
Final Submission of HASP by:	They has		199791		
Post Response Review by:			7/		
Post Response Approval by:					
TAT HSO Review by:			/		
	COMMENTS/FOLLO	WUP			
		·			

azardous Waste Site and Environmental Sampling Activities



APPENDIX E CHAIN OF CUSTODY DOCUMENTS

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 1

JFK Federal Building, Rm. 2203

Boston, Massachusetts 02203

PROJ. NO. **PROJECT NAME** au Somales Reco REEF SITE, PURANT, ME 1235 cold with sold NO. untact SAMPLERS: (Signature) may Mary Clin Tantor Hus C Sanos OF notalo-REMARKS BNA-0-3 CON-**TAINERS** 10A-R-6 STA, NO. DATE TIME STATION LOCATION 5000 3 14/91 0730 USA THE BLANKS #54110 (D) 5001 Drum #42 #55755 (SOLVENT AN HIGH % 5002 MIM# 32 2 #55756 1535 do 5003 MIM # 192 #55757 # 35758- Aralla Stourt * 5004 PIGMENT DRUM (BUE) SOIL PILE (#1) 5005 250 #5375P SON PILE CHE 23 5006 排灣 # #55760 1255 Vk. SON PUE #3 5007 Ŋږ 139SE OF EXCALATION 5008 # #62903 书 多性解釋關鍵圖門自科多次 444 1711 1 $\hat{\mathbf{k}}$ 4 拉维 . 1 也是自由的自由的數數數學的關係。由 Relinguished by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signeture) 经通过 Date / Time 實 Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received for Laboratory by: Date / Time Remarks Distribution: Original Accompanies Shipment; Copy to Coordinator Field File

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U.S. ENVIRONMENT PROTECTION AGENCY REGION I	LAB CODE Nº 54110
SOURCE RESP Site PERMIT NO 1235	PROJECT #
CITY Partiani, ME COLLECTOR T. JONES	STATION # 5 650
WEATHER: CLEAF RAIN, SNOW (CIRCLE ONE)	SAMPLE TYPE: GRAP T_V_
AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21°	COLLECTION DATE
SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	YYMMDD YYMMDD
(Circle One) Other	TIOHOM
PARAMETERS (CHECK APPROPRIATE) METALS	START END COLLECTION TIME
Bacti NH3 Phenol Tot. Diss.	
BOD NO2+3 COD Cd	START END
TSS TKN PCB Cu Turb T P X-Ray Cr (T)	SAMPLE TEMP (°C)
Organics O&G Other *Cr (+6)	pH (SU)
VOA's CN Fe Hg	TOT Cl ₂ (mg/l)
FLOW MEASUREMENT Mn None Ni	SETTLEABLE SOLIDS (m1/1)
Magmeter SIZE Pb	FLOW MÊTÊR EPA SOURCE
Venturi Sn Zn Zn	TOTALIZER
V-Notch Inches/Degrees Other	START
Other *Unpreserved sample	END
EPA RI-7500-31	
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	LAB CODE Nº 55755
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef 5: +E PERMIT NO 1235	LAB CODE Nº 55755 PROJECT # 1/235
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef SitE PERMIT NO 1235 CITY Portland, ME COLLECTOR T. Jones WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE)	PROJECT # 1/235
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef SitE PERMIT NO 1835 CITY Portland, ME COLLECTOR T. Jones	PROJECT # / 235 STATION # SOOI
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 1235 CITY Portland, ME COLLECTOR T. Jones WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef SitE PERMIT NO 1835 CITY PORTLAND, ME COLLECTOR T. JONES WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° TO F	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 910405 710405
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 1235 CITY Portland, ME COLLECTOR T. Jones WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 910405 710405 START END
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 135 CITY Portland, ME COLLECTOR T. Jones WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) METALS Bacti NH3 Phenol Tot. Diss.	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 91/04/05 71/04/05 START END COLLECTION TIME / 330 / 330
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 1035 CITY Portland, ME COLLECTOR T. Jones WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. Cd	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 910405 710405 START END COLLECTION TIME / 330 / 330 START END
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef SitE PERMIT NO 1035 CITY Portland, ME COLLECTOR 7. Jones WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) METALS Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd TSS TKN PCB Cu Turb TP X-Ray Cr (T)	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 910405 710405 START END COLLECTION TIME 1330 /330 START END START END START END START END
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 135 CITY Portland, ME COLLECTOR 7. Jones WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°G). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) METALS Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd TSS TKN PCB CU	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 91/0405 71/0405 START END COLLECTION TIME //330 //330 START END START END START END START END OUT OF START END SAMPLE TEMP (°C)
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef S; FE PERMIT NO 1035 CITY PO-HOAD, ME COLLECTOR T. Jones WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd TSS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other *Cr (+6) Fe Hg	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE Y Y M M D D Y Y M M D D 91/04/05 7/04/05 START END COLLECTION TIME / 330 / 330 START END START END START END OF PH (SU) TOT Cl ₂ (mg/l)
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 1035 CITY Portland, ME COLLECTOR 7. Jones WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd TSS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other Cr (+6) FLOW MEASUREMENT None PIOW MEASUREMENT None SIZE	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE YYMMDD YYMMDD 91/0405 71/0405 START END COLLECTION TIME //330 //330 START END START END START END START END OUT OF START END SAMPLE TEMP (°C)
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 135 CITY PO-HOAC, ME COLLECTOR T. JOSS WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°G). < 6°, 0°-10°, 11°-20°, > 21° 70° F SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd TSS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other Cr (+6) FLOW MEASUREMENT Mn None Magmeter SIZE Pb Sn	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE Y Y M M D D Y Y M M D D 9//04/05 P//04/05 START END COLLECTION TIME //330 / 330 START END SAMPLE TEMP (°C)
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 1035 CITY Portland, ME COLLECTOR T. Jones WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C). < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd TSS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other Cr (+6) VOA'S CN Fe FLOW MEASUREMENT None Magmeter SIZE Venturi Parshall Zn	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE Y Y M M D D Y Y M M D D 9 / 0 4 0 5 7 / 0 4 0 5 START END COLLECTION TIME / 330 / 330 START END START END SAMPLE TEMP (°C) PH (SU) TOT Ci ₂ (mg/l) SETTLEABLE SOLIDS (m1/l) FLOW METER EPA SOURCE TOTALIZER
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE Reef Site PERMIT NO 135 CITY PO-HAAC, ME COLLECTOR 7. Jose 3 WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°G). 0°, 0° 10°, 11° 20°, > 21° 70° 5 SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd CJ TSS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other Cr (+6) VOA'S CN Fe FLOW MEASUREMENT None Magmeter SIZE Pb Venturi SIZE Pc	PROJECT # / 235 STATION # SOOI SAMPLE TYPE GRAB T V COLLECTION DATE Y Y M M D D Y Y M M D D 9//04/05 P//04/05 START END COLLECTION TIME //330 / 330 START END SAMPLE TEMP (°C)

U.S. ENVIRONMENT PROTECTION AGENCY REGION I SOURCE REEF SITE PERMIT NO 1235 CITY POTTON ME COLLECTOR T. JONES WEATHER: CLEAR RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0° 10°, 11° 20°, > 21° 70° 7 SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	LAB CODE NO 55756 PROJECT # 1/235 STATION # 15000 SAMPLE TYPEGRAB T V COLLECTION DATE YYMMDD YYMMDD 9/0405 9/0405
Countri Countries Countr	START END COLLECTION TIME 1 335
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I SOURCE PERMIT NO 1235 CITY PORTLAND, ME COLLECTOR T. The Second WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE)	LAB CODE NO 55757 PROJECT # 1 2 5 5 STATION # 1 5 0 5 STATION # TOTAL T
SOURCE REEF SITE PERMIT NO 1235 CITY PORTAND, ME COLLECTOR T. JASS	PROJECT # / ZSS STATION # STATION #

U.S. ENVIRONMENT PROTECTION AGENCY REGION I SOURCE SIXE PERMIT NO 1235 CITY PARTAIN, MC COLLECTOR 1. Jave S. WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	LAB CODE Nº 55758 PROJECT # 7555 STATION # 55758 SAMPLE TYPE: GRAB, T_V_ COLLECTION DATE YYMMDD YYMMDD
Circle One Other Other	START END COLLECTION TIME START END SAMPLE TEMP (°C) PH (SU) TOT Cl ₂ (mg/l) SETTLEABLE SOLIDS (m1/l) FLOW METER EPA TOTALIZER START END
Other *Unpreserved sample	MULTIPLIER
"IInnresorved sample	LAB CODE NO 55759 PROJECT # J J J J J J J J J J J J J J J J J J

U.S. ENVIRONMENT PROTECTION AGENCY REGION I	LAB CODE Nº 55760	
SOURCE/LESS SYNT PERMIT NO 1235	PROJECT # 795	
CITY PONTAND, ME COLLECTOR I. JONES	STATION # SOOF	
WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE)	SAMPLE TYPE: GRAB,TV	
AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21°	COLLECTION DATE	
SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	YYMMDD YYMMDD	
(Circle One) Other		
PARAMETERS (CHECK APPROPRIATE) METALS	START END COLLECTION TIME	
Bacti NH3 Phenol Tot. Diss.		
BOD NO2+3 COD Cd CTSS TKN PCB Cu	START END	
Turb TP X-Ray Cr (T)	SAMPLE TEMP (°C)	
Organics	pH (SU)	
ELOW MEASUREMENT	TOT Cl ₂ (mg/l)	
None None	SETTLEABLE SOLIDS (m1/1)	
Magmeter SIZE Pb Venturi Sn	FLOW METER EPA SOURCE	
Parshall Zn	TOTALIZER	
Rectangular Match Lingen	START	
Other *Unpreserved sample		
Control of the contro		
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION L	·	
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	LAB CODE Nº 62516	
SOURCE PERMIT NO 1235	LAB CODE Nº 62516 PROJECT #	
MILL	PROJECT # 1255 STATION # 5007	
SOURCE PERMIT NO 1235	PROJECT # 1/2/3/5	
CITY PONDAND, MC COLLECTOR I Johns	PROJECT # 1255 STATION # 5007 SAMPLE TYPE: GRAB, T_V_ COLLECTION DATE	
SOURCE Lef Lite PERMIT NO 1235 CITY PONDAND, MC COLLECTOR Johns WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	PROJECT # JESS STATION # SOOT SAMPLE TYPE: GRAB, T_V_ COLLECTION DATE Y Y M M D D Y Y M M D D	
SOURCE Lef Lite PERMIT NO 1235 CITY RONDAND, MC COLLECTOR Life WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) Other	PROJECT #	
SOURCE Lef Lite PERMIT NO 1235 CITY PONDAND, MC COLLECTOR Johns WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED	PROJECT # JESS STATION # SOOT SAMPLE TYPE: GRAB, T_V_ COLLECTION DATE Y Y M M D D Y Y M M D D	
SOURCE Lef Lite PERMIT NO 1235 CITY LONDAND, MC COLLECTOR Life WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) METALS Bacti NH3 Phenol Tot. Diss.	PROJECT #	
SOURCE Solve PERMIT NO 1235 CITY ROLL MC COLLECTOR Solve COLL	PROJECT # STATION # STATION # SOOT SAMPLE TYPE: GRAB, T V COLLECTION DATE YYMMDD YYMMDD START END COLLECTION TIME START END	
SOURCE LOSS PERMIT NO 1235 CITY COLLECTOR LOSS COL	PROJECT # STATION # STATION # SOOT SAMPLE TYPE: GRAB, T V COLLECTION DATE Y Y M M D D Y Y M M D D START END COLLECTION TIME START END START END START END START END START END	
SOURCE LOSS PERMIT NO 135 CITY LOSS AND COLLECTOR SOURCE ONE) WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd ISS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other Cr (T) Organics O&G Other Fe	PROJECT # STATION # STATION # SOOT STATE STATE STATE STATE STATE STATE STATE STATE STATE SAMPLE TEMP (°C) PH (SU)	
CITY PERMIT NO 135 CITY PARAL, MC COLLECTOR TOWN WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE) AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21° SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) PARAMETERS (CHECK APPROPRIATE) Bacti NH3 Phenol Tot. Diss. BOD NO2+3 COD Cd ISS TKN PCB Cu Turb TP X-Ray Cr (T) Organics O&G Other Cr (+6) FOR HIGH HIGH MIN	PROJECT # STATION # STATION # SAMPLE TYPE: GRAB, T V COLLECTION DATE Y Y M M D D Y Y M M D D START END COLLECTION TIME START END START END START END START END START END TOT Cl ₂ (mg/l)	
SOURCE PERMIT NO 135 CITY PARAM, MC COLLECTOR FOR COLLECTOR COLLE	PROJECT # STATION # STATION # SOOT STATE STATE STATE STATE STATE STATE STATE STATE STATE SAMPLE TEMP (°C) PH (SU)	
SOURCE SO	PROJECT # STATION # STATION # SAMPLE TYPE: GRAB, T V COLLECTION DATE Y Y M M D D Y Y M M D D START END COLLECTION TIME START END START END SAMPLE TEMP (°C) PH (SU) TOT Cl ₂ (mg/l) SETTLEABLE SOLIDS (m1/l) FLOW METER EPA SOURCE	
SOURCE	PROJECT # STATION # STATION # SAMPLE TYPE: GRAB, T V COLLECTION DATE Y Y M M D D Y Y M M D D START END COLLECTION TIME START END START END SAMPLE TEMP (°C) DPH (SU) TOT Cl ₂ (mg/l) SETTLEABLE SOLIDS (m1/l) FLOW METER EPA SOURCE TOTALIZER	
SOURCE PERMIT NO 255 CITY COLLECTOR COLLECTOR December December	PROJECT # STATION # STATION # SAMPLE TYPE: GRAB, T V COLLECTION DATE Y Y M M D D Y Y M M D D START END COLLECTION TIME START END START END SAMPLE TEMP (°C) PH (SU) TOT Cl ₂ (mg/l) SETTLEABLE SOLIDS (m1/l) FLOW METER EPA SOURCE	

U.S. ENVIRONMENT PROTECTION AGENCY REGIO	
SOURCE/EAST STEE PERMIT NO 1255	EAB CODE
CITY POINTAND, ME COLLECTOR J. JOHN WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE)	PROJECT # 1 235 STATION # 5008 SAMPLE TYPE: GRAB, T_V_
AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21°	COLLECTION DATE
SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREA (Circle One) Other	TED YYMMDD YYMMDD
PARAMETERS (CHECK APPROPRIATE) METALS	START END COLLECTION TIME
Bacti NH3 Phenol Cob Cd Cd Cd TSS TKN PCB Cr (T) Turb T P X-Ray Cr (T) Organics O&G Other Pc Hg FLOW MEASUREMENT None Magmeter Venturi Parshall V-Notch lectangular Other Cb Cu Cu Cr (T) Fe Hg Mn Ni SIZE Pb V-Notch Inches/Degrees Other V-Notch Inches/Degrees Other V-Notch Inches/Degrees *Unpreserved services of the company	START END SAMPLE TEMP (°C) PH (SU) TOT Cl ₂ (mg/l) SETTLEABLE SOLIDS (m1/l) FLOW METER EPA SOURCE TOTALIZER START END END
EPA RI-7500-31 Unpreserved s	sample MULTIPLIER

APPENDIX F PROPERTY DEED/TAX MAP

BX 8 2 7 9 PG 0 1 8 5

020432

KNOW ALL MEN BY THESE PRESENTS, THAT

WE, John M. Kendall and Sherman B. Kendall, both of WE, John M. Kendall and Sherman B. Kendall, both of Falmouth, County of Cumberland and State of Maine, for Consideration paid by Norman S. Reef and Raymond M. Reef, Trustees of R. F. Investment Trust, of Portland, County of Cumberland and State of Maine, the receipt whereof we do hereby acknowledge, do State of Maine, the receipt whereof we forever grant unto the hereby remise, bargain, sell, convey and forever grant unto the hereby remise, bargain, sell, convey and forever grant unto the said Norman S. Reef and Raymond H. Reef, Trustees of R. F. said Norman S. Reef and Raymond H. Reef, Trustees of R. F. investment Trust, their successors and assigns forever, with investment Trust, their successors and assigns forever, with WARRANTY COUNTAINTO, the fallswing described real preparity will buildings thereon situated in Portland, County of Cumberland and State of Maine, and more particularly bounded and described as follows: follows:

A certain lot or parcel of land in said Portland, Maine more particularly bounded and described on Exhibit A attached herato.

Being the same premises set forth in the Warranty Deed from Arthur Girard to John M. Kendall and Sherman B. Kendall dated July 15, 1985 and recorded in the Cumberland County Registry of Deeds in Book 6826, Page 263.

IN WITNESS WHEREOF, WE, the said John M. Kendall and Sherman B. Kendall, being husband and wife, joining in this deed as Grantors, and releasing all rights by descent and all other rights in the above described premises, have hereunto set our hands and seals this 6th day of May, 1988.

IN THE PRESENCE OF:

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	and the privilege
To have and to po	the aforegranted and bargained premises, with all the privileges
and appurtenances thereof, to the said	John M. Kendall and Sherman B. Kendall
as joint tenants,	them and their use and behoof forever.
cheir helmand assigns, to	
And I do	Chainfar aftu fue min comme
that I am lawfully seized in	fee of the premises, that they are free of all encumbrances
that I have good right to	sell and convey the same to the said Grantee to hold as aforesaid; and
	helps shall and will marrant and diffend the same to the said
,, a	gns forever, against the lawful claims and demands of all persons.
Grantee & their heir and and	gns rever, against the
In Witness Whe	reof. I the said Arthur Girard
and mailtings on the	
	Man of X
1	
:	·
probable affect the cont	;
	Application is a service of the construction of the service of the
	atinguisting and convey to and seal this 15th
instruction in decrease, have	hereunto set my hand and seal this 15th
day of the month of July	,A.D. 1985 •
Bigneb, Beuled end Del	parits a
الله معتصر الله المعتصر الله المعتصر الله الله الله الله الله الله الله الل	. Hell fame
in letter 4	Arthur Girard

400000000000000000000000000000000000000	
Brate of Matie. Count	g of CUMBERLAND as: July 15,1985.
	Arthur Girard
Then personally appeared	the above named Arthur Girard
). 1	
and acknowledged the foregoing in	strument to be his free act and deed.
;	Before me,
	(Alles L
;	EDWO A. HEIGHER AHOTHEY AT LAW
RECEIVED	
ISBS JUL 16 AM 10	_ ' // ^
TO PETRICIPE DESCRIPT OF	OFF COS
RECORDED RESISTANT	in' .

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STATE OF MAINE CUMBERLAND, 88.

May 6, 1988

Personally appeared the above named John M. Kendall and Sherman B. Kendall and acknowledged the foregoing instrument to be their free act and deed.

Before ma,

Attorney at Law

Allen J. Hryear

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A certain lot or parcel of land, together with all buildings and improvements now or hereafter located thereon, situated southeasterly of, but not adjoining Morrill Street, in the City of Portland, County of Cumberland and State of Maine and more particularly bounded and described as follows:

Commencing at an iron rod located at the southerly end of Cambridge Street on the easterly side thereof; thence on a course of south 50°-46'-5" east a distance of 291.53 feet to an iron rod; thence on the same course a distance of 17.7 feet to an iron rod set at the northeasterly corner of the premises herein conveyed; thence on a course of south 52°-5'-50" west a distance of 330.96 feet to an iron pipe; thence on a course of north 47°-25'-55" west a distance of 192.77 feet to an iron rod; thence on a course of south 46°-34'-35" west a distance of 49.43 feet to an iron rod; thence on a course of north 47°-5'-25" west a distance of 150.10 feet to an iron rod; thence on a course of north 47°-7'-2" west a distance of 150.10 feet to an iron rod; thence on a course of north 47°-7'-2" west a distance of 40.60 feet to an iron rod; thence on a course of north 19°-18'-0" east along land now or formerly of Merrill Industries, Inc., a distance of 314.52 feet to an iron pipe; thence on a course of south 50°-46'-5" east a distance of 10.48 feet to an iron rod set in the westerly sideline of said Cambridge Street; thence continuing on the same course along the southerly end of Cambridge Street a distance of 40 feet to the point of beginning. Containing 3.09 acres, more of less.

The above described premises are shown on a plan of land for Merrill Industries prepared by Owen Haskell, Inc., and dated february 15, 1985, and shown on said plan as land "NOW OR FORMERLY THE BURT COMPANY".

Also all right, title and interest of the Grantor herein in and to a certain right of way extending easterly along the location of the Portland Terminal Company to Horrill Street from a certain right of way leading from land of said Grantor to land of said Portland Terminal Company. Heaning and intending hereby to convey all right, title and interest of the Grantor in and to said right of way as now used by said Grantor. Being the same conveyed to Pottland Billiard Ball Corporation by Portland Billiard Ball Company by deed dated December 29, 1930 and recorded in said Registry of Deeds Book 1365, Page 68.

Also a right of way over the following described atrip of land located at North Dedring near Morrills Corner, said strip being bounded as follows: Beginning on the easterly line of the railroad; location used and occupied by the Maine Central and Portland and Rochester Railroad at a stone wall marking the dividing line of land formerly of Charles Goodridge and land formerly belonging to Rufus Morrill, thence northeasterly by said wall two hundred sixty-nine (269) feet to the corner of the same; thence southeasterly by said wall forty (40) feet, thence southeasterly parallel with the first course to the easterly line of said railroad location; thence by said railroad location to the point of beginning. Being the same right of way described in deed from Charles Goodridge to Charles S. Morrill, recorded in Cumberland County Registry of Deeds, Book 365, Page 13, and the same conveyed to Portland Billiard Ball Corporation by Colonial Containers Corporation by deed dated March 18, 1931 and recorded in Said Registry of Deeds, Book 1365, Page 307.

REGIONAL SECTIONS OF CLESSES

1980 HAY 10 PH 3: 47

YTHUOS CHASHIBENUD

James greenlehr

Know all Men by these Presents.

That I, Arthur Girard, of Portland, County of Cumberland and State of Maine,

in consideration of One Dollar (\$1.00) and other valuable consideration,

paid by John M. Kendall and Sharman B. Kendall, both of Falmouth, County of Cumberland and State of Maine,

whose mailing address 28 Hammond Road, Falmouth, Maine, 04105

the receipt whereof I do hereby acknowledge, do hereby gire, grant, bargain, sell and source unto the said John M. Kendall and Sherman B. Kendall, as joint tenants and not as tenants in common,

heir heir and assigns forever.

A certain lot or parcel of land in said Portland, Maine more particularly bounded and described on Exhibit A attached hereto:

Exhibit A

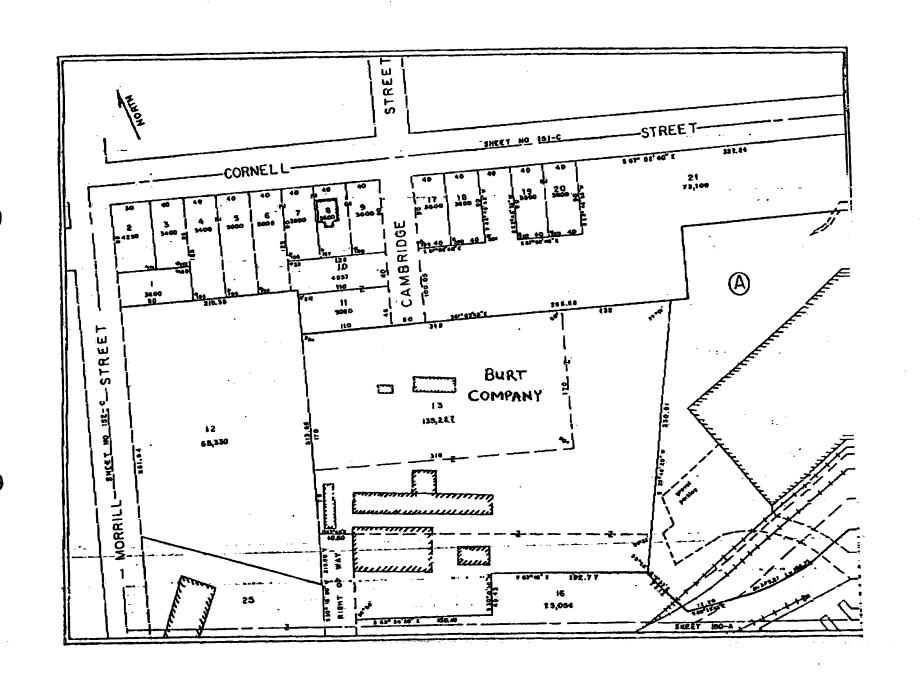
A certain lot or parcel of land, together with all buildings and improvements now or hereafter located thereon, situated southesaterly of, but not adjoining Morrill Street; in the City of Portland, County of Cumberland and State of Maine and more particularly bounded and described as follows:

Commencing at an iron rod located at the southerly end of Cambridge Street on the casterly side thereof; thence on a gourse of south 50°-46'-5" east a distance of 201.53 feet to an iron rod; thence on the same gourse a distance of 17.7 feet to an iron rod set at the northeasterly twins of the pitmisss herein conveyed; thence on a course of south 52°-5'-50" west a distance of 330.96 feet to an iron pipe; thence on a course of north 47°-25'-55" west a distance of 192.77 feet to an iron rod; thence on a course of south 46°-34'-35" west a distance of 49.43 feet to an iron rod; thence on a course of north 47°-5'-25" west a distance of 150.10 feet to an iron rod; thence on a course of north 46°-33'-0" east a distance of 100.10 feet to an iron rod; thence on a course of north 47°-7'-0" west a distance of 40.60 feet to an iron rod; thence on a course of north 19°-18'-0" east along land now or formerly of Merrill Industries, Inc., a distance of 314.32 feet to an iron pipe; thence on a course of south 50°-46'-5" east a distance of 10.48 feet to an iron rod set in the wasterly sideline of said Cambridge Street; thence continuing on the same course along the southerly end of Cambridge Street a distance of 40 feet to the point of beginning. Containing 3.09 acres, more or less.

The above described premises are shown on a plan of land for Merrill Industries prepared by Owen Hackell, Inc., and dated February 15, 1985, and shown on said plan as land "NOW OR FORMERLY THE BURT COMPANY".

Also all right, title and interest of the Grantor herein in and to a certain right of way extending easterly along the location of the Portland Terminal Company to Morrill Street from a certain right of way leading from land of said Grantor to land of said Portland Terminal Company. Meaning and intending hereby to convey all right, title and interest of the Grantor in and to convey all right, title and interest of the Grantor in and to convey all right of way as now used by said Grantor. Being the same conveyed to Portland Billiard Ball Corporation by Portland Billiard Ball Company by deed dated December 29, 1930 and recorded in said Registry of Deeds Book 1365, Page 68.

Also a right of way over the following described strip of land located at North Deering near Horrills Corner, said strip being bounded as follows: Beginning on the easterly line of the railroad; location used and occupied by the Maine Central and Portland and Rochester Railroad at a stone wall marking the dividing line of land formerly of Charles Goodridge and land formerly belonging to Rufus Morrill, thence northeasterly by said wall two hundred sixty-nine (269) feet to the corner of the same; thence southeasterly by said wall forty (40) feet; thence southwesterly parallel with the first course to the easterly line by said railroad location; thence by said railroad location to the point of beginning. Being the same right of way described in deed from Charles Goodridge to Charles E. Horrill, recorded in Cumberland County Registry of Deeds, Book 365, Page 13, and the same conveyed to Portland Billiard Ball Corporation by Colonial tontainers Corporation by deed dated Harch 18, 1931 and recorded in said Registry of Deeds, Book 1365, Page 307.



APPENDIX G OVERPÄCK DRUM INVENTORY

OVERPACE DRUMS (listed by number)

```
* - Overpack Inventory (4/5/91) - See Legend on Page 5.
                                  cardboard & wood from poolball shed
 0.P.-1
                            l
                                  cardboard from poolball shed
 O.P.-2
                                  cardboard from poolball shed
 0.P.-3
                                  cardboard & wood from poolball shed
 O.P.-4
                            1
                                  cardboard from poolball shed
 0.P.-5
                                  cardboard from poolball shed
 O.P.-6
 0.P.-7
                                  poolballs
                            2
 0.P.-8
                                  poolballs
                            2
  O.P.-9
                                  poolballs
  O.P.-10
                                  poolballs
 0.P.-11
                                  poolballs
                            2
                                  poolballs
 0.P.-12
                            2
                                  poolballs
  Q.P.-13
                             2
  O.P.-14
                                  poolballs
                             3
 0.P.-15
                                  poolballs
                             4
 O.P.-16
                                  poolballs
                            1
  0.P.-17
                                  poolballs
 O.P.-18
                                  poolballs
                             4
                                  poolballs
  O.P.-19
                             4
  O.P.-20
                                  poolballs
  0.P.-21
                            1
                                  poolballs
  O.P.-22
                             4
                                  poolballs
  O.P.-23
                             4
                                  poolballs
  0.P.-24
                                  poolballs
O.P.-25
                             4
                                  poolballs
                            1
  O.P.-26
                                  poolballs
  0.2.-27
                                  poolballs
                                  poolballs, plastic & floor sweepings from shed
  O.P.-28
                            1
                                  35-gal drum of pool ball trimmings (125 lbs.)
  O.P.-29
                                  55-gal drum of trimmings (200 lbs.) 55-gal drum of trimmings (200 lbs.)
                             1
  0.P.-30
  O.P.-31
                                  35-gal drum (liquid) Mogul Corp., Chagrin Falls, OH
                                                                                                                                                                      (1)
  O.P.-32
                                   lbs.)
                                  35-gal drum (liquid) Mogul Corp., Chagrin Falls,
                                                                                                                                                              OH
                                                                                                                                                                      (10
  O.P.-33
                            1
                                   1bs.)
                                  35-gal drum (liquid) Mogul Corp., Chagrin Falls,
                                                                                                                                                              OH
                                                                                                                                                                       (10
                          . 1
  0.P.-34
                                   lbs.)
                                  35-gal drum (liquid) Mogul Corp., Chagrin Falls, OH
                                                                                                                                                                      (10
  0.P.-35
                                   lbs.)
                                  25, 10, 5 gal drums, 50 lb. bag, Imperial Colors Pigment ar
  O.P.-36
                                   Toner (100 lbs.)
                                  10 lbs. Ferro Colors, Cleveland, OH (6 empty buckets) (5
  0.P.-37
                            1
                                   lbs.)
                          5 Five 100-1b. bags, Chemtron Corp. Pigment Division, Holland
  O.P.-38
                                  MI (500 lbs.)
                                   35-gal drum Plaskon, Toledo, OH (50 lbs.)
  O.P.-39
                                  Two 35-gal drums DayGlo Pigment, Cleveland, OH (50 lbs.)
  0.P.-40
                                                                                               والمراج والمرا
                                                                                                                                       Carrier &
              41.
                                   Chemical Co., Boston, MA
  0.P.-42
                                   55-gal drum Tecsol
                                   35-gal drum Cadmium Yellow, General Color Co., Newark, 1
  O.P.-43
                                   (50 lbs.)
```

O. ERPACK DRUMS (listed by number)

```
O.P.-44
                 35-gal drum Green #5, Shepard Chemical Co., Cincinnati,
            5
                 (50 lbs.)
                5 lbs. Argyle Green, Paul Uhlich & Co., New York, NY
10 lbs. Heliogen Green toner, General Aniline & Fi
                 Corporation, New York, NY
                10 lbs. Imperial Pigment Colors, Glens Falls, NY
                5 lbs. Resin Orange, National Aniline Division, New York,
                 5 lbs. Blue, Claremont PolyChemical Corp., NY
                15 lbs. C-10 Tungsten Powder, Li Tungsten Corp., NY
                10 lbs. Brass Powder, New Jersey Zine Co. 3 containers of dye, blue, orange and marcon, no names (150
 O.P.-45
                 lbs.)
                 2 bags LeHigh Leaded 2inc Oxide, New Jersey Zinc Co.
 O.P.-46
            5
                1 bucket powdered lead (no name) (280 lbs.)
            5
 O.P.-47
                25-gal drum Billard Ball Scarlet, H. Kohnstamm & Co.,
                                                                                   New
                 York, Chicago
                l bag regular shellac (50 lbs.)
O.P.-48
                35-gal drum dye, billard balls & cutouts (150 lbs.)
            1
                Plastic, dye & billard balls (150 lbs.)
DayGlo Blue, 35-gal drum F.F. Wood Rosin
O.P.-49
           1
O.P.-50
           1
O.P.-51
                P. Silica bags
P. Silica bags
O.P.~52
           3
                P. Silica bags
O.P.~53
           3
O.P.-54
                P. Silica bags
           3
                P. Silica bags
0.P.-55
           3
O.P.-56
           3
                P. Silica bags
                P. Silica bags
P. Silica bags
O.P.-57
           3
O.P.-58
           3
O.P.-59
                P. Silica bags
           3
                P. Silica bags
P. Silica bags
P. Silica bags
P. Silica bags
O.P.-60
           3
0.P.-61
           3
0.P.-62
           3
O.P.-63
           3
O.P.-64
           3
                P. Silica bags
           3
O.P.-65
                B.A. 29, 8 bags
O.P.-66
           3
                Calcium Chloride
O.P.-67
                Plastic, floor sweepings & cardboard
           1
0.P.~68
           4
                Wood from floor
O.P.-69
           4
                Wood from floor
0.P.-70
           4
                Wood from floor
O.P.-71
          .4
                Wood from floor
0.P.-72
                Wood from floor
                Wood from floor
O.P.-73
          4
                Wood from floor
O.P.-74
           4
0.P.-75
           4
                Wood from floor
O.P.-76
                Solka Floc
          1
O.P.-77
                Solka Floc
          1
O.P.-78
                Solka Floc
          1
O.P.-79
                Solka Floc
O.P. -80
                Solka Floc
          1
O.P.-81
          1
                Solka Floc
O.P.-82
               Solka Floc
          1
O.P.-83
          1
               Solka Floc
O.P.-84
          1
               Solka Floc
O.P.-85
         1
               Solka Floc
O.P.-86
          1
               Solka Floc
```

-2-

OVERPACE DRUMS (listed by number)

```
O.P.-87
           1:
               Solka Floc
           1
               Solka Floc
O.P.-88
               150-1b. bag MicroFibres, Inc.
O.P.-89
           1
Q.P.-90
               MicroFibres, Inc.
               MicroFibres, Inc. MicroFibres, Inc.
O.P.-91
           1
O.P.-92
           1 ;
               Plorence Green, Seal 8, Zinc Oxide (lead free)
           1
Q.P.-93
               Florence Green, Seal 8, Zinc Oxide (lead free)
O.P.-94
           1
O.P.-95
           1
0.P.-96
           3
Q.P.-97
           5 .
               Florence Green, Seal 8, Zinc Oxide (lead free)
O.P.-98
           1
               Florence Green, Seal 8, Zinc Oxide (lead free) Florence Green, Seal 8, Zinc Oxide (lead free)
O.P.-99
           1 .
O.P.-100
               Ground Lead Monosilicate
O.P.-101
           5
               Ground Lead Monosilicate
O.P.-102
           5
O.P.-103
                Ground Lead Monosilicate
           5 .
                Ground Lead Monosilicate
O.P.-104
           5
                Ground Lead Monosilicate
O.P.-105
           5
                Ground Lead Monosilicate
O.P.-106
           5
                Ground Lead Monosilicate
O.P.-107
           5
O.P.-108
                Ground Lead Monosilicate
           5
                Ground Lead Monosilicate
O.P.-109
           5
                Ground Lead Monosilicate
O.P.-110
           5 .
                Ground Lead Monosilicate
0.9.-111
                Floor Sweepings
O.P.-112
           1
                Wood from floor and 1/2 barrel of dye
0.P.-113
           4
                Wood from floor
O.P.-114
           4
                Wood from floor
O.P.-115
           3
               .Wood from floor
O.P.-116 4
               Wood from floor
O.P.-117 4
0.P.-118 4
                Wood from floor
O.P.-119 1
               Plastic cardboard, poolballs with lead dust
               150-bag MicroFibres & cardboard with lead dust
O.P.-120 1
O.P. -121 4
                Wood from floor
O.P.=122 4
                Wood from floor
O.P.-123 1
                Wood & floor sweepings
O.P.-124 1
               Floor sweepings
O.P.-125 1
                35-gal drum blue dye
                Plastic cutouts with lead dust
O.P.-126 1
                Plastic cutouts with lead dust
0.P.-127 1
                Plastic cutouts with lead dust
O.P.-128 1
O.P.-129 1
                Plastic cutouts with lead dust
O.P.-130 1
               Plastic cutouts with lead dust
                Plastic cutouts with lead dust
O.P.-131 1
                Plastic cutouts with lead dust
· O.P.-132 1 .
                Plastic cutouts with lead dust
O.P.-133 1
0.P.-134 1
                Plastic cutouts with lead dust
                Plastic cutouts with lead dust
0.P.-135 1
                Plastic cutouts with lead dust
0.P.-136 1
0.P.+137 1
                Plastic cutouts with lead dust
                Plastic cutouts with lead dust
O.P. +138 1
                Plastic cutouts with lead dust
 O.P.-139 1
 O.P.-140 1
                Plastic cutouts with lead dust
```

OVERPACK DRUMS (listed by number)

```
1 Enamel Plus, screen process ink, barium sulfate
O.P.-141
               NJZ New Jersey Zinc Company
             PDI Edison, NJ
               MW200 Pfizer, New York, NY
O.P.-142
               Tyvek, gloves, etc. 20-gal drum of oil
0.P.-143
            1 20-gal drum of oil
O.P.-144
               15-gal drum of alkaline material, Mogul Corp.
O.P.-145
               35-gal drum of alkaline material, Chagrin Falls, OH
O.P.-146
O.P. 147
               20 gal drum of oil
            1 15-gal bucket PDI, five 1-gal cans PDI various colors, nine
O.P.-148
               1-gal cans of paint, one 1-qt can of paint thinner,
              5-1b. can Sta-Roc cement paint, one 1-gal can Minerall c
              pull-in compound, twelve 1-qt. cans screen process ink various colors, three 1-qt cans paint, one 1-qt. car furniture polish, one 5-lb. can white lead, two 1 qt. cars
               John-Mansville #20 plastic refractory cement and
               resetting fire brick, one 1-gal can roof cement, one 5-gal
               can roof cement
            \pm Ground plastic chips and floor sweepings
0.7.-149
             i Ground plastic chips and floor sweepings
O.P.-150
              Ground plastic chips and floor sweepings
0.P.-151
            I Ground plastic chips and floor sweepings
O.P.-152
            i Ground plastic chips and floor sweepings
O.P.-153
            1 Ground plastic chips and floor sweepings
O.P.-154
            1 Ground plastic chips and floor sweepings
O.P.-155
            i Ground plastic chips and floor sweepings
O.P.-156
            1 Floor sweepings and poolballs
O.P.-157
              35-gal drum ChemTreat on-line cleaner (sample 1)
Ó.P.-158
              35-gal drum AquaTreat (sample 2)
O.P.-159
            5 25-gal drum unknown liquid (sample 3)
5 One 5-gal bucket unknown liquid (sample 4)
O.P.-160
O.P.-161
              ให้ก็ค 5-ตุลใ hucket มกหักกษา ไม่กุ้มเปี (sample 5)
               35-gal drum ground plastic chips and floor sweepings
            1 "
0.P.-162
             10-gal drum purple dye (no name)
             54 20-gal drum ground plastic chips & floor sweepings
O.P.-163
               35-gal drum ground plastic chips & floor sweepings
O.P.-164
             5. 35-gal drum ground plastic chips & floor sweepings
O.P.-165
            5 35-gal drum ground plastic chips & floor sweepings 40-gal drum ground plastic chips & floor sweepings
              35-gal drum ground plastic chips & floor sweepings
O.P.-166
O.P.-167
               35-gal drum ground plastic chips & floor sweepings
O.P.-168(
             5; 35-gal drum ground plastic chips, floor sweepings
O.P.-169
              fiberglass resin mixed in
            5; 35-gal drum ground plastic chips, floor sweepings
O.P.-170
            5; 25-gal drum ground plastic chips, floor sweepings, 1: 40-1b. bag zinc sterate
                                                                             one
0.P.-171
            40-gal drum ground plastic chips, floor sweepings (locals
O.P.-172
              i like oil mixed with it)
             Three 5-gal buckets of fiberglass resin, one
                                                                           1-91
O.P.-173
             fiberglass resin, two 5-gal buckets resin solution
```

OVERPACE DRUMS (listed by number)

One 5-gal bucket BYK (A501) Chemie Wallingford, CT, floor 1-pt. bottle chloride G #1330, 1-pt. bottle chloride #1322, 1-pt. bottle alkalinity E #1320, one 1/2-pt. alkalinity E #1320, one-2 oz. bottle chloride F #1326, one-2 oz. bottle alkalinity D #1319, one-2 oz. bottle alkalinity C #1319, one 2-oz. bottle pH indicator A #1317, one 1/2 oz. bottle alkalinity E, one 4 oz. bottle TeraPrint Orange ZR liquid, one 4 oz. bottle Tera Print Black 300 Re-liquid, one 5-gal bucket of cutting fluid emulsion, one 1-gal bucket cutting oil 401, three 1-gal can oily liquid, one 5-gal bucket ColorAid wetting agent One 5-gal. bucket foundation coating, two 2 1/2-gal bucket KilSludg #VM-540, two 2 1/2-gal buckets of oily liquid One 5-pail paint, one 1-gal can Urethan adhering vinyl O.P.-175 #2854, one 4-gal can ParaBond M-417 adhesive, one 1-gal can O.P.-176 polyester product contains styrene, vinyl toluene, floor sweeping with paint and fiberglass resin Thermoplastic material (ground pellets) Thermoplastic material (ground pellets)
Thermoplastic material (ground pellets) O.P.-177 O.P.-178 1 O.P.-179 Thermoplastic material (ground pellets)

LEGEND:

O.P.-180

- 1 Overpack Drum Storage Area
- 2 Overpack Lids Only No Drum Located
- 3 Overpack Not Located or Inside Trailer and Label Not Visible
- 4 Empty Overpacks In Storage Garage/Shed
- 5 Overpacks Located in Trailer

APPENDIX H

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION LETTER TO EPA NEW ENGLAND REGIONAL LABORATORY

STATE OF MAINE



Department of Environmental Protection

MAIN OFFICE: RAY BUILDING. HOSPITAL STREET, AUGUSTA MAIL ADDRESS: State House Station 17, Augusta, 04333

207-289-7688

JOHN R. MCKERNAN, JR. GOVERNOR

DEAN C. MARRIOTT COMMISSIONER

March 28, 1991

Mr. David McIntyre EPA New England Regional Lab 60 Westview Street Lexington, MA. 02173

Dear Dave:

The purpose of this letter is to review the Department of Environmental Protection (DEP) understanding of our recent discussions concerning the Burt Co. site in Portland, Maine.

The Burt Co. Site was reported to the DEP in March of 1990. Initial investigations revealed that bags of lead monosilicate and dyes had been strewn about the site by vandals. After unsuccessfully attempting to convince the current owner, Mr. Norman Reef, to clean up the site the DEP secured the contaminated soil, dyes and lead monosilicate in 180 drums on site. I have asked Dave Wright and Clayton Maybee of my staff to contact Mary Ellen Stanton with information on site history and investigations to date.

At present the drums remain on site. The site is only partially fenced and recently vandals have knocked over some of the drums and damaged the security (snow) fence that was placed around the drums. The DEP is concerned that the drummed material is a hazard to children who may play on site since the lead levels are very high (EP Tox of 7700 ppb). The best course of action would be to remove the drums as soon as possible. In addition there may be hazardous materials located in the partially burned structures on the property. Investigation within the production buildings has not been conducted because the buildings are too structurally unstable to enter.

As we discussed, the DEP's plans are to attempt to schedule a final meeting with the site owner and former operators. The PRPs will be informed that the site must be cleaned up to the Department's satisfaction, either voluntarily or following issue of a clean up order. If an order is issued and the PRPs fail to comply, the matter will be referred to the Attorney General's Office for enforcement and to EPA Removal for clean up action and further enforcement.

Page 2

If the above does not meet with your understanding, please give me a call so we can discuss the site.

Sincerely,

Denise Messier

Division of Site Investigation & Remediation Bureau of Oil and Hazardous Materials Control

Deb Hanley, DEP David Wright, DEP Clayton Maybee, DEP Mary Ellen Stanton, EPA cc:

APPENDIX I

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION PRELIMINARY ASSESSMENT





STATE OF MAINE

Department of Environmental Protection

MAIN OFFICE: RAY BUILDING, HOSPITAL STREET, AUGUSTA MAIL ADDRESS: State House Station 17, Augusta 04223 207-289-7688

JOHN R. MCKERNAN, JR.

DEAN C. MARRIOTY COMMISSIONER

MEMORANDUM

TO:

Sharon Hayes, USEPA Superfund Support Section

Region I

FROM:

layton Maybee, Maine Department of Environmental

Protection, BOHMC

DATE:

December 11, 1990

RE:

Preliminary Assessment

Burt Company

1 Cambridge Street, Portland Cumberland County, Maine 04103 CERCLIS Number: MED985468024

INTRODUCTION

The Burt Company site in Portland, Maine was brought to the attention of the Maine Department of Environmental Protection, (DEP), on March 5, 1990, when drums of chemicals were discovered following a fire at that location in early March of 1990. A site visit was made by the Bureau of Oil and Hazardous Materials Control (BOHMC) Response Services of the State of Maine DEP and the site was placed on CERCLIS on June 25, 1990. A preliminary site assessment was conducted by the division of Site Investigation and Remediation on September 20, 1990.

DESCRIPTION AND HISTORY

Identification Information

The Burt Company site is owned by Norman Reef of 66 Pearl Street, Portland Maine. The site is located on 1 Cambridge Street, Portland, Maine, and is denoted as lot No. 13A, of tax map 151A, for Portland. Figure 1 shows the location of Burt Company on the tax map.

Property Description

The Burt Company site is located in a mixed use industrial and residential area of Portland in Cumberland County, Maine. The lot is over three acres in size, bordered by

lots 11 and 21 to the North, lot 15 to the West, lot 16 to the South, and lot 12 to the West. These lots are industrial with the exception of lot 11 which is residential. The population of Portland is 62,000 and the population of surrounding Cumberland County is 243,000. (MEDHR, 1989 census, phone communication). Figure 2 is a topographic map showing land within a one mile radius of the site

The site is easily accessed on the North by Cambridge Street. At the time of initial DEP investigation the facility was partially surrounded by a fence, but there was no gate at the main entrance and the fence did not exclude access. A gate was installed by Norman Reef under Departmental Order, (letter to Norman Reef from Steve Eufemia, April 17, 1990), at the Cambridge Street entrance to restrict access but has since been removed. There are three buildings on the site, a storage garage, an office building, and an operations building. The operations building was damaged by fire and appears to be structurally unsound. Milliken Brook flows on the southern perimeter of the property and a smaller feeder stream flows through the property. (figure 3).

Facility Activity/History

The Burt Company site is at the location of the former Burt Company. Burt Company, an assumed name for the Brothers Corporation, was a manufacturer of plastic billiard balls and poker chips. Burt Company was owned by Douglas Burt and incorporated in April 1985. Burt Company was sold to John Kendall of Chipco International in July of 1985. The Burt Company ceased operations in September of 1988 and its assets were seized by the bank in December of 1988. The Burt Company site was seized by the U. S. Internal Revenue Service on July 26, 1989. Following that date, Norman Reef acquired the property. A fire destroyed the operations building in December of 1989. Bekar Industries, an asbestos abatement contractor, rented the office building for an unknown period of time before the fire. People's Heritage Bank and Sun Savings Bank have threatened to foreclose on the property.

A second fire, involving a drum of Tech Sol solvent, was set by vandals in March of 1990. The DEP was then notified of the presence of potentially toxic substances by the Portland City Fire Department. An investigation was made by the State of Maine DEP on March 22, 1990. (Hodgkins, MDEP, Visit to Burt Company, March 26, 1990).

At the storage building, vandalism following the first fire resulted in lead monosilicate and dye material being spread on the know. DEP observers noted that children and dogs had tracked dyes through the snow on the site. Street people

were reported living in the abandoned buildings and children had been collecting billiard balls which were coated with dye. The area where dyes and lead monosilicate were spilled was covered with plastic sheeting by the DEP and later contained. Other bags of lead monosilicate were torn by vandals and contents were scattered widely throughout the site. Laboratory analyses of the soils containing the spilled dyes indicated Barium at 3600 ppm EP Toxicity. The analyses also indicated lead at 7700 ppm EP Toxic in the soils where lead monosilicate was spilled. Table 1 shows laboratory analyses of the soils containing dyes and lead monosilicate.

In the burned operations building of the facility, resinous substances were found in pools on the floor. Drums of unknown substances were stored on the site. Most of these drums appeared in good condition although some had been compromised accounting for a potential source of the spilled dyes. Some of the drums were marked and contents included the brand name 'Mogal', Urea Molding Compound, and some marked "alkaline materials". Barrels of polystyrene (Co-Pel) pellets, that had been dyed different colors, were found overturned. There where numerous small containers of household chemicals also found at this site.

After the current owner failed to initiate a removal at the site, the DEP BOHMC Response Services initiated removal operations from May 23, 1990 to June 7, 1990. An area where soil appeared stained was sampled for organics on May 23, 1990. Results were for 211 ug/kg. Laboratory analyses of the stained soil area is shown in Table 1. Dyes, lead monosilicate, plastics, and contaminated materials were placed in drums at the site. Additionally 20 cubic yards of soil contaminated with dyes and lead monosilicate was piled on the site. Further removal is planned in the basement of the burned operations building. 180 overpacked drums are on site awaiting disposal. Appendix A is an inventory of the contents of the drums. Further cleanup of the operations building is expected to produce 15 additional drums. owner has been ordered by DEP to properly dispose of these Hazardous Wastes. (DEP-BOHMC Enforcement letter, September 17, 1990) As of December 7, 1990, there has been no response to the DEP order. A post removal soil sample collected in front of the storage building where dye and lead monosilicate had been removed was above background for lead (190 ppm) and barium (3400). (table 1).

Asbestos had been abandoned in an open dumpster on the site. The asbestos was reported by the DEP-BOHMC to the DEP-Bureau of Solid Waste and has been removed.

Buried material was noted in an area by the stream during a site visit by the MDEP on September 20, 1990 . Erosion has

exposed plastics and other debris in filled areas. Evidence of several filled areas can be seen on the site. In addition demolition debris from the fire has been placed on the stream bank.

WATER USE

Water Supplies

The heavily populated area in the vicinity of the site, including Falmouth and Pleasant Hill, is served by the Portland municipal water supply. The Portland water supply comes from Sebago Lake 13 miles from the site. The extent of private well use is not known. (Portland City Water District, telephone communication, September 1990).

Surface Water

A small feeder stream flows to the East through the site and connects with Milliken Brook on the southern perimeter of the property. (figure 3). Milliken Brook is a tributary of Fall Brook which flows into Back Cove approximately one mile to the south. Back Cove is part of the tidal waters of the Casco Bay system.

CONCLUSIONS

The facility is located in a mixed use commercial and residential area serviced by municipal water supply. Site access is unrestricted and children come into contact with hazardous substances including high concentrations of barium, chromium, and lead. There are drums of both known and unknown substances present and there have been spills of chemicals including but not limited to lead monosilicate and dyes. Unknown and potentially hazardous material is present in the burned building. Plastics have been found in filled areas indicating a potential practice of burying hazardous substances on site. The present owner is reluctant in cooperating with the DEP in site cleanup activities.

RECOMMENDATION

The Maine DEP recommends a High Priority Screening Site Inspection due to following:

- 1) Known presence of heavy metals including Barium and Lead in excess of State and Federal standards and
- 2) potential for Chromium, and other heavy metals elsewhere on the property.

- 3) Other unknown and potentially hazardous chemicals stored, spilled, and potentially disposed of on the property.
- 4) Potential hazardous chemicals generated by fire at the site of the hurned building
- 5) Area of high population density and unrestricted access with evidence of frequent human contact.
- 6) Proximity to sensitive waters of the Casco Bay region.

REFERENCES

Analytics Environmental Laboratory Inc., Laboratory Results, May 25, 1990

DeLorme Mapping Company, Twelfth Edition, 1987

Eufemia, S.J. State of Maine DEP, Letter to Norman Reef, April 17, 1990.

Hodgkins, N.J., State of Maine DEP, Memorandum RE: Visit to Burt Company, in Portland, March 26, 1990.

Hodgkins, N.J., State of Maine DEP, Potential Hazardous Waste Site-Site Identification, June 13, 1990.

LRS Enviro Services, Inc., Laboratory Results, June 11, 1990

LRS Enviro Services, Inc., Job sheets including inventory of overpacked drums., May 23, 1990

Maine Department of Environmental Protection, Laboratory Results, April 19, 1990.

Maine Department of Environmental Protection, Laboratory Results, September 29, 1990.

Maine Department of Environmental Protection, Letter to Norman Reef, September 17, 1990

Maine Department of Human Resources, 1989 Census Information, (Phone Communication, November 1990).

Portland City Water District, telephone communication, September 1990)

Table 1

DEP Laboratory Analyses of Spilled Materials

Sample	Parameter	Conc.	Units
Sample 1	Silver by flame	1.9	mg/kg
soil with dyes	Arsenic by furnace	15	mg/kg
3/27/90	Cadmium by flame	4200	mg/kg
	Chromium by flame	46000 .30	mg/kg
	Mercury by vapor	35	mg/kg
	Nickel by flame	92	mg/kg
1	Lead	< 15	mg/kg
	Selenium by flame	92000	mg/kg
1.7	Barium by flame	3600	mg/kg
	Barium EP Toxic		mqq
	Cadmium EP toxic	.47	ppm
	Chromium EP toxic	. 02	ppm
Sample 2 soil with lead 3/27/90	Lead EP toxic	7700	ppm
Sample 3 stained soil 5/30/90	o & p Dichlorobenzene	211	ug/kg
		-	
Sample 4	Silver by furnace	.02	mg/kg
	il Arsenic by furnace	. 3	mg/kg
9/20/90	Cadmium by furnace	27	mg/kg
	Chromium by flame	9.35	mg/kg
	Mercury by vapor	< .15	mg/kg
	Lead	190	mg/kg
	Selenium by flame	< 2	mg/kg
	Barium by flame	3400	mg/kg
	Barium EP Toxic	1.9	mqq
	Lead EP toxic	. 20	mqq

Figure 1. Location of the Burt Company on the Portland City Tax Map

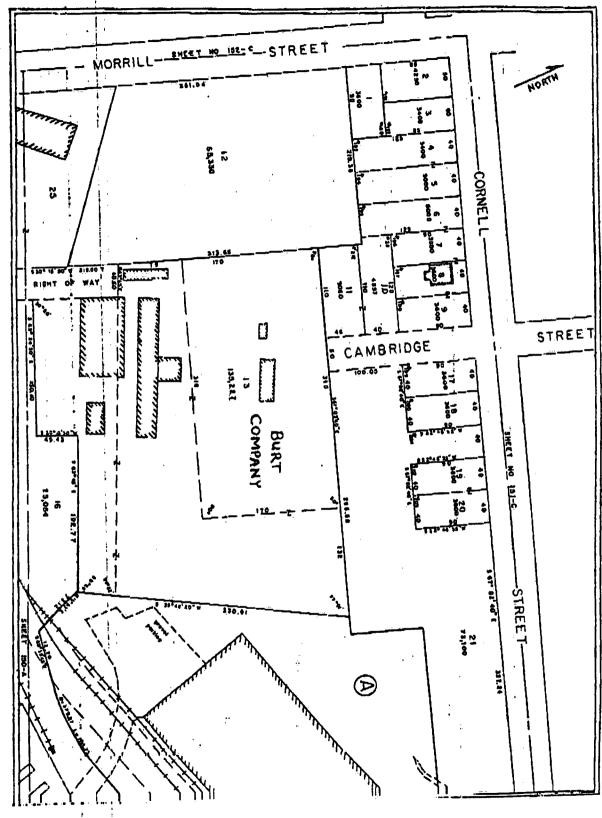
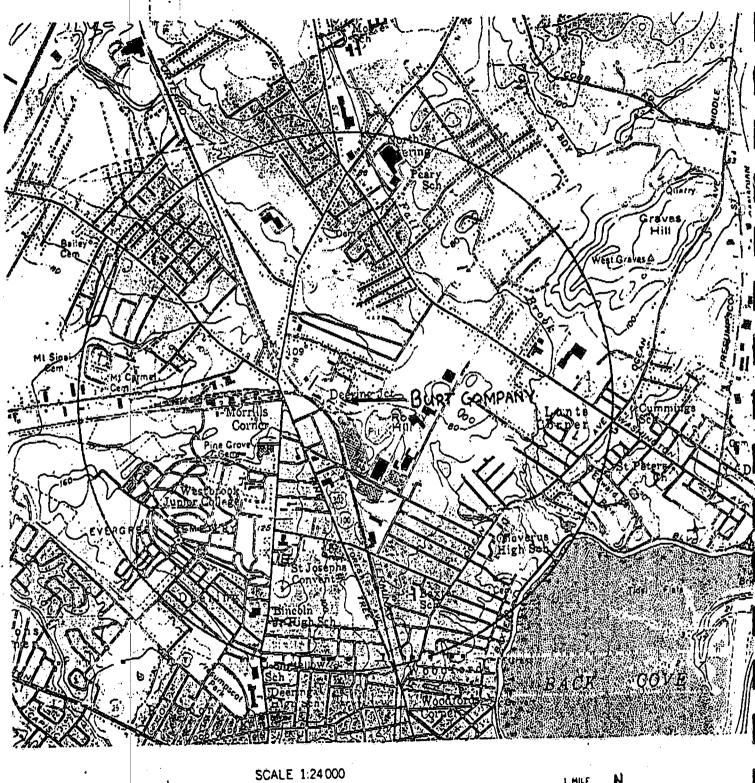


Figure 2. Topographic Map Showing One Mile Radius From The Burt Company

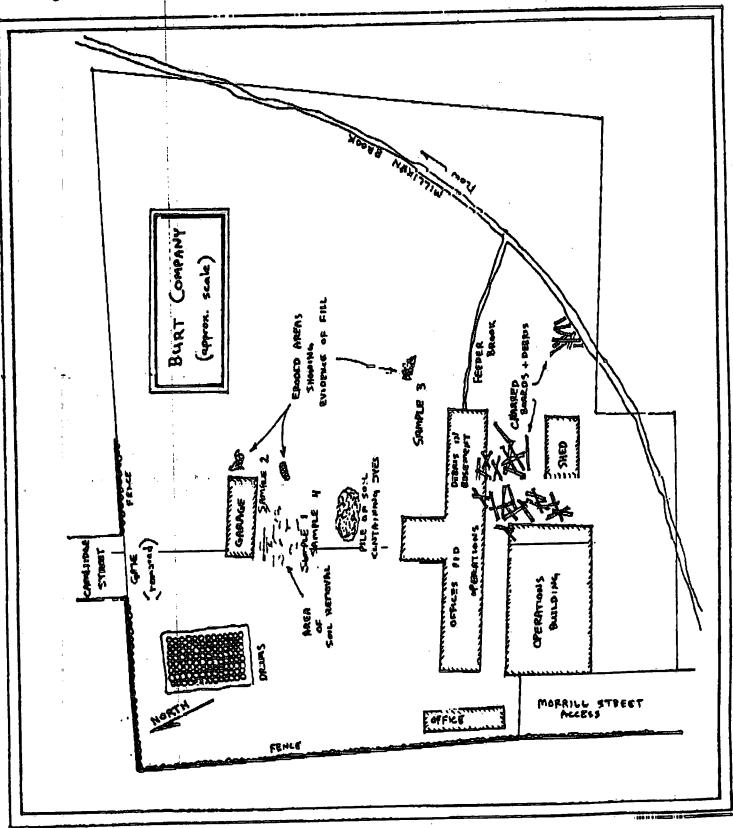




CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
SHORELINE SHOW! REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN MANGE OF TIDE IS APPROXIMATELY 8.9 FEET



Figure 3. Burt Company Site Map



APPENDIX J

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DRAFT ADMINISTRATIVE ORDER

DRAFT

IN THE MATTER OF

BURT COMPANY SITE PORTLAND, Cumberland County, Maine PROCEEDING UNDER 38 M.R.S.A. SECTION 1365, UNCONTROLLED HAZARDOUS SUBSTANCE SITES

DESIGNATION OF
UNCONTROLLED HAZARDOUS
SUBSTANCE SITE
AND ADMINISTRATIVE
ORDER

Jurisdiction

This Designation of Uncontrolled Hazardous Substance Site is made pursuant to the authority vested in the Commissioner of Environmental Protection ("Commissioner") under the Uncontrolled Hazardous Substance Sites Law, 38 M.R.S.A. Sections 1361-1371.

Findings of Fact

- The Burt Company Site, hereinafter sometimes referred to as the "Site", refers to a parcel of land having a surface area of approximately 3.1 acres and any structures or improvements thereon, located in Portland, Maine. It includes the property owned by Norman Reef, identified as lot 13A on the City of Portland Tax Map 151A on file in the municipal offices. The Site is depicted in Attachment 1 which is attached hereto and made a part of this Designation.
- 2. The Burt Company Site is situated on the northeast side of the City of Portland. The Site is located in a mixed use (residential and commercial) urban area. DEP personnel have observed unrestricted access to the site and that children play in the area.
- 3. The Site is the location of the former Burt Company. The Burt Company was owned and operated by John Kendall of Chipco International from July 1985 to December of 1988.
- 4. The Burt Company was a manufacturer of plastic billiard balls and poker chips. The Burt Company ceased operations in September of 1988. During operation lead monosilicate was used at the site to give weight to the billiard balls and poker chips. Various dyes, some containing heavy metals, were used at the site to color the billiard balls and poker chips.

- Two fires occurred at the facility, one in December of 1989 and a second in March of 1990. During this period vandalism caused bags of lead monosilicate and dyes to be torn and scattered widely throughout the site. Unknown materials are present in the basement of a burned building on the site.
- The materials referred to in paragraphs 4 and 5 were stored or disposed in such a manner that they have been or are being discharged into the environment at, beneath or adjacent to the Site.
- 7. Soil samples were collected during the period from March, 1990 to September, 1990 from the Site and analyzed. The samples were found to contain the following hazardous substances:

Compound

Maximum Reported Concentration narts per hillion (pph) EP Toxic

Barium Lead 3600 7700

The Maine DEP has established that materials may be identified as hazardous waste by characteristics of EP Toxicity (38 M.R.S.A. section 1301). The Toxicity concentrations are the minimum concentrations of contaminants for characteristic of EP toxicity.

Compound

Minimum Concentration for EP Toxicity parts per billion (ppb) EP Toxic

Barium Lead 100

8. The compounds identified in paragraph 7 exhibit the following characteristics and pose a threat to the public health or safety or to the environment in the event that they are released into the environment:

DRAFT

A. Barium

Barium is an extremely reactive metal that decomposes in water. Insoluble forms are not very toxic, but soluble forms are acutely toxic. Poisoning from soluble forms produces a strong, prolonged stimulant action on muscle tissue. Accidental ingestion of soluble barium salts has resulted in gastroentritis, muscle paralysis, and ventricular fibrillation and extra systoles.

(Source: Chemical, Physical, and Biological Properties of Compounds Present at Hazardous Waste Sites, prepared for the USEPA by Clement Associates, Inc., Arlington, Virginia, September 27, 1985)

Barium is identified as a hazardous waste and is assigned the Hazardous Waste Number D005 under the Department's Hazardous Waste Management Rules.

B. Lead

Lead is a heavy metal. It is a reproductive hazard and also adversely affects the brain and central nervous system by causing encephalopathy and peripheral neuropathy. Chronic exposure to low levels of lead can cause subtle learning disabilities in children. Exposure to lead can also cause kidney damage and anemia, and may have adverse effects on the immune system.

(Source: Chemical, Physical, and Biological Properties of Compounds Present at Hazardous Waste Sites, prepared for the USEPA by Clement Associates, Inc., Arlington, Virginia, September 27, 1985)

Lead is identified as a hazardous waste and is assigned the Hazardous Waste Number DOOS under the Department's Hazardous Waste Management Rules.

- 9. MEDEP has twice notified Norman Reef by certified letter of requirements for cleanup.
 - A. On April 17, 1990, MEDEP Division of Response Services sent a certified letter to Norman Reef requesting that the site be secured and that he sample, identify, remove, and dispose of the waste material in a manner acceptable to the Department. The letter stated that if a response was not made within 48 hours the MEDEP would initiate cleanup and the owner would be held liable for the costs incurred during such a cleanup. The letter was accepted but the requested action was not taken by Norman Reef.

- B. IRS Environmental was contracted by the MEDEP to contain the hazards present at the Site and began operations at the site in May of 1990.
- C. On September 17, 1990, the MEDEP Division of Licencing and Enforcement sent a certified letter to Norman Reef requesting reimbursement for costs incurred by the containment operation and requesting proper disposal of the drums remaining on the site. The letter was accepted but to date Norman Reef has not complied with the request and has not indicated that he intends to.
- D. On January 14, 1991 The MEDEP Division of Licensing and Enforcement referred the case to the Division of Site Investigation and Remediation for further action.
- 10. 38 M.R.S.A. Section 1362(1) defines "hazardous substance'
 - Any substance identified by the Board of Environmental Protection under [38 M.R.S.A.] Section 1319-0 [hazardous waste];
 - B. Any substance identified by the Board under [38 M.R.S.A.], Section 1319 [hazardous matter];
 - C. Any substance designated pursuant to the United States Comprehensive Environmental Response, Compensation and Liability Act of 1980, Public Law 96-510, Sections 101 and 102 (Superfund);
 - D. Any toxic pollutant listed under the United States Federal Water Pollution Control Act, Section 307(a);
 - E. Any hazardous air pollutant listed under the United States Clean Air Act, Section 112;
 - Any imminently hazardous chemical substance or mixture with respect to which the Administrator of the United States Environmental Protection Agency has taken action pursuant to the United States Toxic Substances Control Act, Section 7; and
 - G. Waste oil as defined in [38 M.R.S.A.], Section 1303.
- The substances listed in paragraphs 7, and 8 have been designated as hazardous wastes by the Board of Environmental protection pursuant to 38 M.R.S.A. Section 1319-0. They are, accordingly, hazardous substances within the meaning of 38 M.R.S.A. Section 1362. These substances are being, or have been, stored, spilled, or disposed of at the site in such a manner that they have been or are being released or dispharged into the soil.

- 12. 38 M.R.S.A. section 1362(2) defines "responsible party" as one or more of the following persons:
 - A. The owner or operator of the uncontrolled site;
 - B. Any person who owned or operated the uncontrolled site from the time any hazardous substance arrived there;
 - C. Any person who arranged for the transport or handling of a hazardous substance, provided that the hazardous substance arrived at the uncontrolled site; and
 - D. Any person who accepted a hazardous substance for transport, provided that the substance arrived at the uncontrolled site.

Based on the above Findings of Fact, the Commissioner concludes the following:

- Hazardous substances as defined in 38 M.R.S.A. Section 1362 have been handled and disposed of at the Burt Company Site.
- 2. Hazardous substances handled and disposed of at the Site create a danger to the public health or safety or to the environment.
- 3. Continued danger to the public health or safety of any person or to the environment exists as a result of the continued presence of hazardous substances in soils at the Site and the unlimited access and proximity of the Site to residential areas of Portland.
- 4. The actual or threatened releases or discharges of hazardous substances in the area pose a threat or hazard to the public health, safety or welfare and to the natural environment.
- 5. Norman Reef is a responsible party as defined in 38 M.R.S.A. Section 1362.
- 6. Removal and possibly remedial action is necessary to abate the threat, danger, or hazard to public health or safety and to the environment posed by the Site.

THEREFORE, pursuant to 38 M.R.S.A. Section 1365, the Commissioner hereby DESIGNATES the Burt Company Site in Portland, Maine an Uncontrolled Hazardous Substance Site.

ORDER, Norman Reef, as Responsible Party, is hereby ordered to :

- 1. Within 30 days, arrange for and carryout to the satisfaction of the MEDEP:
 - a. The disposal at a licensed RCRA facility of all hazardous wastes containerized by the MEDEP. Proof of compliance will be a copy of the hazardous waste manifest(s) being sent to the MEDEP. A licenced hazardous waste transporter must be used.
 - b. Containerization and analysis by a qualified contractor of all remaining potential hazardous wastes at the site in a manner approved of by the Department.

2. Within 60 days:

- a. Arrange for and carryout disposal of all hazardous wastes containerized in 1b. above.
- b. Arrange for a qualified contractor subject to MEDEP approval, to conduct a Remedial Investigation and Feasibility Study to determine:
 - The extent of contamination by hazardous substances remaining at the site.
 - ii. The type of hazardous substances located at the site.
 - iii. The quantity of hazardous substances located at the site.
 - iv. Alternatives for Remediating the contaminants at the site to the satisfaction of the Department.
- within 30 days of approval of the contractor in 2b above, submit a Remedial Investigation Work Plan for MEDEP approval on how the Remedial Investigation will be conducted, including a time table for completion. If this workplan is unacceptable, the MEDEP shall notify the Responsible Party of the conditions causing the disapproval and within 30 days the responsible party shall submit a work plan addressing all DEP conditions. The final deliverable shall be a draft Remedial Investigation Report.

- Within 30 days of approval of the Remedial Investigation Work Plan per 3 above, the Responsible Party shall initiate the work plan, according to the schedule approved by the MEDEP in the Work Plan. Within 30 days of the copletion of work outlined in the Work Plan, the responsible Party shall submit a Draft Remedial Investigation Report to the DEP. The Department shall review the draft Remedial Investigation Report, and notify the Responsible Party of any additional investigations as warranted. The Responsible Party shall carryout investigations deemed necessary by the Department according to the schedule established by the Department. The final deliverable shall be a redrafted Remedial Investigation Report.
 - Investigation Report, the Responsible Party shall submit a draft Feasiblity Study Work Plan for DEP approval, which will include an assessment of data gaps, proposals for gathering the necessary data, proposed methods of analysing which remedial technologies are appropriate for the site, how applicable remedial technologies will be screened, how remedial technologies trains will be assembled, and a schedule for completion of the Feasibility Study. The final product will be a draft Feasibility Study Report.
- Tf. upon review of the draft Feasibility Study Work Dlam, the Department notifies the Resposible party of any conditions which cause unaccepability, the Responsible Party shall address all such conditions in a revised draft Feasibility Work Plan within 30 days.
- 7. Within 30 days of Departmental approval of the Feasibility ctudy Work Plan, the Responsible Party shall implement the plan according to the approved schedule. If upon review of the draft Feasibility Study Report, the Department notifies the Responsible Party of any conditions which cause unacceptablity, the Responsible Party shall address all such conditions.
- 8. Within 30 days after the approval of the draft Feasiblity Study Report (RI/FS), the Responsible Party shall submit a Final Remedial Investigation and Feasibility Study Report.
- 9. Within 30 days of Departmental approval of the final RI/FS the Responsible Party shall take any action the Department determines is necessary to terminate or mitigate the danger or likelyhood of danger at the site within the time frame specified by the Department and to the Department's satisfaction.



Rights of Review and Appeal

Norman Reef may apply to the Board of Environmental Protection for a hearing within 5 days of receipt of this order. The hearing shall be held within 5 days of receipt of the application. Within 7 days after the hearing, the Board shall make findings of fact and shall continue, revoke, or modify this Order.

DONE AND DATED AT AUGUSTA, MAINE THIS 1991.	DAY	OF
DEPARTMENT OF ENVIRONMENTAL PROTECTION		
BY: Dean C. Marriott, Commissioner		

cgm BURTDES5.doc

APPENDIX K PHOTODOCUMENTATION LOG

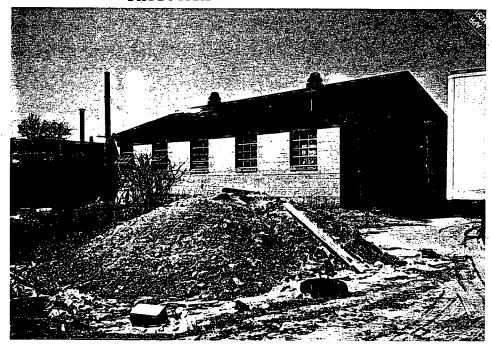


SCENE: OVERPACK DRUM STORAGE AREA (UNRESTRICTED ACCESS)
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 1 DATE: 04/05/91 TIME: 1112 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON

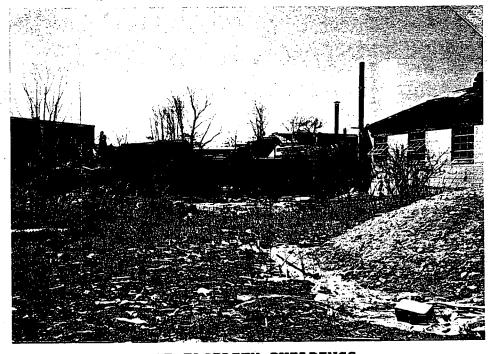
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SCENE: PURPLE DYE NEAR OVERPACK DRUM STORAGE AREA
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 2 DATE: 04/05/91 TIME: 1113 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: CONTAMINATED SOIL PILE (SAMPLES S005-7)
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 3 DATE: 04/05/91 TIME: 1115 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



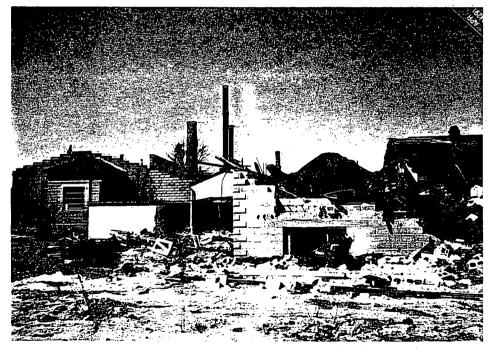
SCENE: FIRE-DAMAGED SECTION OF FACILITY BUILDINGS
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 4 DATE: 04/05/91 TIME: 1116 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: STORAGE GARAGE (NOTE DAMAGE TO OVERHEAD DOORS)

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE FRAME NUMBER: 5 DATE: 04/05/91 TIME: 1119 SKY CONDITION: CLEAR PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: ADDITIONAL VIEW OF FIRE-DAMAGED FACILITY BUILDING

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE FRAME NUMBER: 6 DATE: 04/05/91 TIME: 1119 SKY CONDITION: CLEAR

PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES , M.E. STANTON

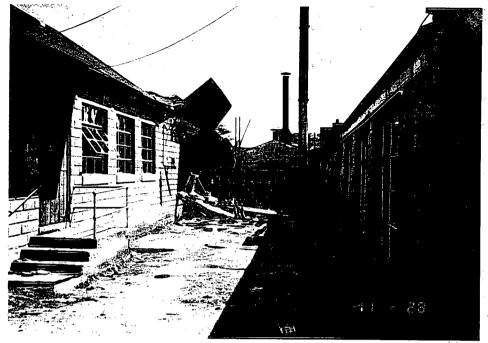
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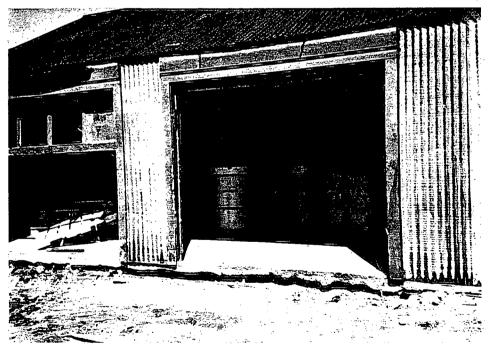
SCENE: BLUE PIGMENT DRUM (SAMPLE S004) IN BASEMENT OF BURNED BUILDING SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE FRAME NUMBER: 7 DATE: 04/05/91 TIME: 1121 SKY CONDITION: CLEAR PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: SMALL OFFICE BUILDING (LEFT) OCCUPIED BY STREET PEOPLE
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 8 DATE: 04/05/91 TIME: 1126 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: ALLEY BETWEEN PRODUCTION BUILDING AND BURNED BUILDING
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 9 DATE: 04/05/91 TIME: 1128 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: WEST END BAY OF STORAGE GARAGE (SAMPLE SOO8 FROM SOIL IN FRONT)
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 10 DATE: 04/05/91 TIME: 1130 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: DEBRIS IN MIDDLE BAY OF STORGE GARAGE

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE

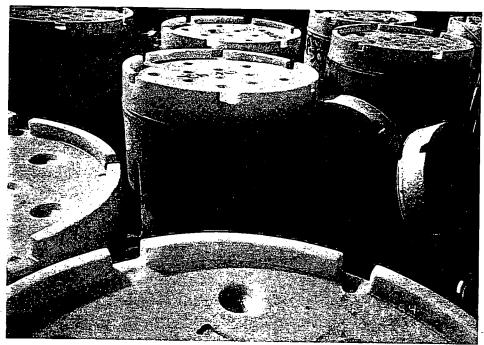
FRAME NUMBER: 11 DATE: 04/05/91 TIME: 1132 SKY CONDITION: CLEAR

PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES , M.E. STANTON

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: DEBRIS IN EAST END BAY OF STORAGE GARAGE
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 12 DATE: 04/05/91 TIME: 1132 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230

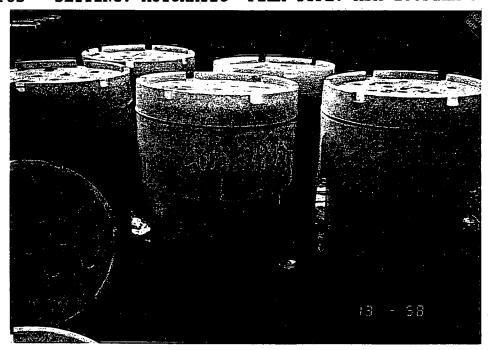


SCENE: OVERPACK DRUM NO. 42 (SAMPLE S001)

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE FRAME NUMBER: 13 DATE: 04/05/91 TIME: 1354 SKY CONDITION: CLEAR

, M.E. STANTON WITNESSES: T. JONES PHOTO BY: T. SACCOCCIO

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: OVERPACK DRUM NO. 32 (SAMPLE S002)

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE FRAME NUMBER: 14 DATE: 04/05/91 TIME: 1358 SKY CONDITION: CLEAR

, M.E. STANTON PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



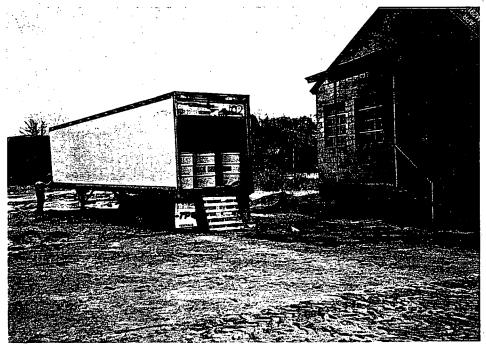
SCENE: OVERPACK DRUM NO. 123 (SAMPLE S003)

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE

FRAME NUMBER: 15 DATE: 04/05/91 TIME: 1358 SKY CONDITION: CLEAR

PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES , M.E. STANTON

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: BOX TRAILER USED FOR OVERPACK DRUM STORAGE
SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE
FRAME NUMBER: 16 DATE: 04/05/91 TIME: 1359 SKY CONDITION: CLEAR
PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES ,M.E. STANTON
CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230



SCENE: INSIDE VIEW OF BOX TRAILER/OVERPACK STORAGE
SITE NAME: REFF (BURT CO.) SITE LOCATION: PORTLAND, MAINE

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE FRAME NUMBER: 17 DATE: 04/05/91 TIME: 1359 SKY CONDITION: CLEAR

PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES , M.E. STANTON

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230

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SCENE: **** NEGATIVES ****

SITE NAME: REEF (BURT CO.) SITE LOCATION: PORTLAND, MAINE

FRAME NUMBER: 18 DATE: 04/05/91 TIME: SKY CONDITION: CLEAR

PHOTO BY: T. SACCOCCIO WITNESSES: T. JONES , M.E. STANTON

CAMERA: OLYMPUS SETTING: AUTOMATIC FILM TYPE: ASA 100FILM ROLL: 020230

VOC SAMPLING RESULTS

MAIN CIL

US ENVIRONMENTAL PROTECTION AGENCY 60 Westview Street Lexington, MA. 02173

DATE: 5/21/91

SUBJECT: REEF SITE

Samples Received: 55755, 55756, 54110 - TRIP BLANK

Samples Analyzed by GC/MS:Same

FROM: Steven Heller, ESAT Chemist, Joe Montanaro, EPA Chemist

TO: Mary Ellen Stanton, EEE

Chief, Chemistry Section WIA 5/23/91 THRU: Dr. William Andrade

PROJECT NUMBER: 910115

DATE(S) SAMPLES RECEIVED BY THE LABORATORY: 4/8/91

ANALYTICAL PROCEDURE: SW-846, 8240 Modified

Sample 55755:

A 100ul of the sample was weighed out into a 10ml volumetric containing approximately 9ml of pesticide grade methanol. The methanol extract was then diluted to a volume of ten ml. A portion of the methanol extract was then diluted in organic-free water and then analyzed as per SW-846 3rd revision, Method 8240 Modified. Concentration is based on the weight analyzed.

Sample 55756:

The sample contained two phases, an oil phase, and a water phase. The water phase was analyzed according to SW-846 3rd revision, Met

QUALITY CONTROL:

- A method blank was analyzed prior to sample analysis.
- Each sample was spiked with three surrogate compounds at approximately 30 ppb concentration. The results for the surrogate recoveries are reported for each sample.

cc: Suresh Srivestava

DATA FILE: D:\LABRPTS\9100115DR.VOA

ANALYTICAL PARAMETERS PURGEABLE ORGANIC ANALYSIS

INSTRUMENTS:

Tekmar ALS 2016 Tekmar LSC-2000 Finnigan INCOS-50

PURGE CONDITIONS:

Gas:

Helium

Purge Time and Flow:

11 min., 40 ml/min

Trap:

25 cm stainles steel (1/8 in.OD) packed with 15 cm 60/80 mesh Tenax-GC plus 8 cm 35/80 mesh Davison type 15 Silica

Gel

Desorption Time, Flow, Temperature:

4 min, 20ml/min.,180C

Bake out cycle:

12 min.

CHROMATOGRAPHIC CONDITIONS:

Column:

30 meter long x 0.5 mm ID DB 624 mega-bore column

Program:

Initial 5 C ramped at 2 C/min to 10 C. Hold at 10 C for 5 minutes, then programmed at 6 C/min to 160 C and held

for 1 minute.

Injector, Separator, and Transfer Temperatures:

220 C,220 C,220 C

Carrier Gas and Flow:

Helium, 30 ml/min

MASS SPECTROMETER CONDITIONS:

Electron Energy:

70 V

Mass Range:

35,300

Scan Rate:

1.5 seconds

FACILITY SAMPLED: Reef Site

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - Drum

SAMPLE NO.: 55755

INSTRUMENT: INCOS-50

SAMPLE LOCATION:

DATE OF ANALYSIS: 4/24/91

REFERENCE BOOK: 119

PRESERVATIVE: Cool to 4 C

SAMPLE RESULTS:

SAMPLE RESU	LIS:		nnm	Det.	
CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Limit (ug/gm)	Comments
		TARGET COMPOUNDS		. 	
74-87-3	34418	Chloromethane	ND	128	
74-83-9	34413	Bromomethane	ND	64	
75-01-4	39175	Vinyl Chloride	ND	64	
75-00-3	34311	Chloroethane	ND	64	
75-09-2	34423	Methylene Chloride	ND	64	
75-69-4	34488	Trichlorofluoromethane	ND	64	
75-35-4	34501	1,1-Dichloroethylene	ND	64	
75-34-3	34496	1,1-Dichloroethane	ND	64	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	64	
67-66-3	32106	Chloroform	ND	64	
107-06-2	34531	1,2-Dichloroethane	ND	64	
71-55-6	34506	1,1,1-Trichloroethane	ND	64	
56-23-5	32102	Carbon Tetrachloride	ND	64	
75-27-4	32101	Bromodichloromethane	ND	64	
78-87-5	34541	1,2-Dichloropropane	ND	64	
10061-02-6	34699	t-1,3-Dichloropropene	ND	64	
79-01-6	39180	Trichloroethylene	ND	64	
124-48-1	32105	Dibromochloromethane	ND	64	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	64	
79-00-5	34511	1,1,2-Trichloroethane	ND	64	
71-43-2	34030	Benzene	ND	64	
110-75-8	34576	2-Chloroethylvinyl ether	ND	256	
75-25-2	32104	Bromoform	ND	64	
127-18-4	34475	Tetrachloroethylene	ND	64	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	64	•
108-88-3	34010	Toluene	ND	64	
108-90-7	34301	Chlorobenzene	ND	64	
100-41-4	34371	Ethylbenzene	ND	64	
107-02-8	34210	Acrolein	ND	1920	
107-13-1	34215	Acrylonitrile	ND	1920	
	1	Dichlorobenzene isomers	ND	128	
•		1,1,2-Trichloro-1,2,2-		4	
		trifluoroethane	ND	64	
67-64-1	81552	Acetone	ND	2560	
75-15-0	77041	Carbon Disulfide	ND	192	
		(con't)			

US ENVIRONMENTAL PROTECTION AGENCY REGION I LABORATORY GC/MS PURGEABLE ORGANIC ANALYSIS -SOIL

SAMPLE NO.: 55755
Sample Results Continued:

CAS NO.	STORET NO.	Compound	Conc. (ug/gm)	Limit (ug/gm)	Comments
78-93-3 108-05-4 591-10-6 108-10-1 100-42-5 133-02-7	81595 77057 77103 81596 81708 81551	2-Butanone (MEK) Vinyl Acetate 2-Hexanone 4-Methyl-2-Pentanone(MIBK) Styrene Xylenes (total) 1,2-Dibromoethane Tetrahydrofuran Ethyl ether	ND ND ND 16,000 ND ND ND ND ND ND ND ND ND	6400 640 64 192 64 128 64 640	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	78	70-133
Toluene, d8	86	88-98
1,4-Bromofluorobenzene	91	80-107

Notes:

ND=none detected

~=approximate <=less than

>=greater than

FACILITY SAMPLED: Reef Site

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 55756 SAMPLE LOCATION:

INSTRUMENT: INCOS-50

DATE OF ANALYSIS: 4/24/91

Det.

ppm

REFERENCE BOOK: 119
PRESERVATIVE: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L))	Limit (ug/L)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	10.0	
74-83-9	34413	Bromomethane	ND	5.0	
75-01-4	39175	Vinyl Chloride	ИD	5.0	
75-00-3	34311	Chloroethane	ND	5.0	
75-09-2	34423	Methylene Chloride	ND	5.0	
75-69-4	34488	Trichlorofluoromethane	ND	5.0	
75-35-4	34501	1,1-Dichloroethylene	ND	5.0	
75-34-3	34496	1,1-Dichloroethane	ND	5.0	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	5.0	
67-66-3	32106	Chloroform	ND	5.0	
107-06-2	34531	1,2-Dichloroethane	ND	5.0	
71-55-6	34506	1,1,1-Trichloroethane	ND	5.0	
56-23-5	32102	Carbon Tetrachloride	ND	5.0	
75-27-4	32101	Bromodichloromethane	ND	5.0	
78-87-5	34541	1,2-Dichloropropane	ND	5.0	
10061-02-6	34699	t-1,3-Dichloropropene	ND	5.0	2
79-01-6	39180	Trichloroethylene	ND	5.0	
124-48-1	32105	Dibromochloromethane	ND	5.0	
10061-01-5	34704	c-1,3-Dichloropropene and/or	ND	5.0	
		1,1-Dichloropropene			
79-00-5	34511	1,1,2-Trichloroethane	ND	5.0	
71-43-2	34030	Benzene	ND	5.0	
110-75-8	34576	2-Chloroethylvinyl ether	ND	20.0	
75-25-2	32104	Bromoform	ND	5.0	
127-18-4	34475	Tetrachloroethylene	ND	5.0	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	5.0	
108-88-3	34010	Toluene	7.0	5.0	•
1 (1) X = U(1) = /	< ZL < 111 I	Chlorobenzene	ND	5.0	
100-41-4	34371	Ethylbenzene	ND	5.0	
107-02-8	34210	Acrolein	ND	150.0	
107-13-1	34215	Acrylonitrile	NĎ	150.0	
20, 20 -	•	Dichlorobenzene isomers	120	10.0	1
		1,1,2-Trichloro-1,2,2-			
		trifluoroethane	ND	5.0	
67-64-1	81552	Acetone	2000	200.0	
	77041	Carbon Disulfide	ND	15.0	
, 5 15 0	, // V Tab	(con't)			

US ENVIRONMENTAL PROTECTION AGENCY REGION I LABORATORY GC/MS PURGEABLE ORGANIC ANALYSIS - Water

SAMPLE NO.: 55756
Sample Results Continued:

CAS	STORET NO.	Compound	Conc. (ug/L))	Det. Limit (ug/L)	Comments
78-93-3 108-05-4 591-10-6 108-10-1 100-42-5 133-02-7	81595 77057 77103 81596 81708 81551	2-Butanone (MEK) Vinyl Acetate 2-Hexanone 4-Methyl-2-Pentanone(MIBK) Styrene Xylenes (total) 1,2-Dibromoethane Tetrahydrofuran Ethyl ether	ND ND ND ND ND ND ND ND	500.0 50.0 5.0 15.0 5.0 10.0 5.0 50.0	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	1,2-Dichloroethane,d4 Toluene,d8	Observed Recoveries 87 81	95%Confidence Limits 70-133 88-98
4 2: 1 .	1,4-Bromofluorobenzene	100	80-107

Notes:

ND=none detected "=approximate <=less than >=greater than

FACILITY SAMPLED: Reef Site

US ENVIRONMENTAL PROTECTION AGENCY REGION I LABORATORY GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 54110 - Trip Blank SAMPLE LOCATION:

INSTRUMENT: INCOS-50

DATE OF ANALYSIS: 4/24/91

REFERENCE BOOK: 119
PRESERVATIVE: Cool to 4 C

SAMPLE RESULTS:

SAMPLE RESU	LTS:		nnm .	Det.	
CAS NO.	STORET NO.	Compound	ppm Conc. (ug/L))	Limit (ug/L)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	2	
74-83-9	34413	Bromomethane	ND	1	
75-01-4	39175	Vinyl Chloride	ND	1	•
75-00-3	34311	Chloroethane	ND	1	
75-09-2	34423	Methylene Chloride	ND	1	
75-69-4	34488	Trichlorofluoromethane	ND	1	
75-35-4	34501	1,1-Dichloroethylene	ND	1	
75-34-3	34496	1,1-Dichloroethane	ND	1	•
156-60-5	34546	1,2-Dichloroethylene isomers	ND	1	
67-66-3	32106	Chloroform	ND	1	
107-06-2	34531	1,2-Dichloroethane	ND	1	
71-55-6	34506	1,1,1-Trichloroethane	ND	1	
56-23-5	32102	Carbon Tetrachloride	ND	1	
75-27-4	32101	Bromodichloromethane	ND	1	
78-87-5	34541	1,2-Dichloropropane	ND	1	
10061-02-6	34699	t-1,3-Dichloropropene	ND	1	
79-01-6	39180	Trichloroethylene	ND	1	
124-48-1	32105	Dibromochloromethane	ND	1	
10061-01-5	34704	<pre>c-1,3-Dichloropropene and/or 1,1-Dichloropropene</pre>	ND	1	
79-00-5	34511	1,1,2-Trichloroethane	ND	1	
71-43-2	34030	Benzene	ND	1	
110-75-8	34576	2-Chloroethylvinyl ether	ND	4	
75-25-2	32104	Bromoform	ND	1	
127-18-4	34475	Tetrachloroethylene	ND	1	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	1	
108-88-3	34010	Toluene	ND	1	
108-90-7	34301	Chlorobenzene	ND	1	
100-41-4	34371	Ethylbenzene	ND	1	
107-02-8	34210	Acrolein	ND	30	
107-13-1	34215	Acrylonitrile	ND	30	
	7	Dichlorobenzene isomers	ND	2	
4: !!		1,1,2-Trichloro-1,2,2-			
		trifluoroethane	ND	1	
67-64-1	81552	Acetone	ND	40	
75-15-0	77041	Carbon Disulfide (con't)	ND	3	

US ENVIRONMENTAL PROTECTION AGENCY REGION I LABORATORY GC/MS PURGEABLE ORGANIC ANALYSIS - Water

SAMPLE NO.: 54110 - Trip Blank

Sample	Resul	ts Cont	inued:

CAS	STORET NO.	Compound	Conc. (ug/L))	Limit (ug/L)	Comments
78-93-3 108-05-4 591-10-6 108-10-1 100-42-5 133-02-7	81595 77057 77103 81596 81708 81551	2-Butanone (MEK) Vinyl Acetate 2-Hexanone 4-Methyl-2-Pentanone(MIBK) Styrene Xylenes (total) 1,2-Dibromoethane Tetrahydrofuran Ethyl ether	ND	100 10 1 3 1 2 1 10 3	

Other Compounds Tentatively Identified

Other Compounds Quantitated

ries Limits 70-133 88-98 80-107
;

Notes:

ND=none detected = approximate <=less than >=greater than

METALS SAMPLING RESULTS

XRF-86

date: 4/9/91

re: XRF Screening Report of Reef Site

Project # 910115

from: Dr. T. M. Spitter M

to: Dr. William Andrade and Site Manager

6 samples were submitted for screening for heavy metals using the Kevex XRF analyser. Samples were homogenized and an aliquot was analysed using the HNu XRF instrument. All samples were found to contain no elements above normal background in soil except for the following:

Sample	#	Field	ID	Pb	Cu	Ba	
13721		62903					
13722		55757		2000		ν.	High
13723		62516					
13724		55760					
13725		55758			10%		
13726		55759					

OIL ID RESULTS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION I

60 WESTVIEW STREET, LEXINGTON, MASSACHUSETTS 02173

F1/2 5/3/91

DATE: April 30, 1991

SUBJ: Comparison of Petroleum Oils by Gas Chromatography - Reef Site

Nathan Rianes, Deb Thiem and Dick Siscanaw, Chemistry Section

FROM: Nathan Rianes, Deb Thiem and Dick Disoundar, States

THRU: Dr. William J. Andrade, Chief, Chemistry Section

TO: Dorothy Girten Wiff 5/2/1/

PROJECT NUMBER: 910115

ANALYTICAL PROCEDURE:

The samples were prepared by the ASTM Method 3326, <u>Practice for Preparation of Samples for Identification of Waterborne Oils</u> and ASTM Method 3328, <u>Method for Comparison of Waterborne Petroleum Oils by Gas Chromatography</u>. The standards along with the samples were diluted with cyclohexane and analyzed on a Hewlett Packard 5880 gas chromatograph equipped with a flame ionization detector.

Date(s) Samples Received by the Laboratory: 4/8/91

Date(s) Samples Analyzed: 4/15 - 25/91

File: K:\CHEMSTRY\REPORTS\FINAL\9101150I.OIL

US ENVIRONMENTAL PROTECTION AGENCY 60 Westview Street Lexington, MA 02173

QUALITY CONTROL:

- 1. A laboratory blank was analyzed with the samples.
- Duplicate analyses were performed on the following sample(s): 55756.

RESULTS:

Qualitative Comparison (visual comparison of chromatograms):

Sample 55756 Motor oil 30 - Match 55756 duplicate Motor oil 30 - Match

SAMPLES ANALYZED: 55756

US ENVIRONMENTAL PROTECTION AGENCY 60 Westview Street Lexington, MA 02173

DEFINITIONS:

Match - Identical data or data showing minor differences attributable to weathering.

Probable Match - Similar data showing moderate differences attributable to weathering and/or contamination.

Indeterminate - Data showing excessive differences that might be attributable to weathering and/or contamination or might be attributable to a similar oil from a different source.

Mismatch - Dissimilar data.